

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT



<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> 14-7D-36 BTR				
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> CEDAR RIM				
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>				
<b>6. NAME OF OPERATOR</b> BILL BARRETT CORP						<b>7. OPERATOR PHONE</b> 303 312-8164				
<b>8. ADDRESS OF OPERATOR</b> 1099 18th Street Ste 2300, Denver, CO, 80202						<b>9. OPERATOR E-MAIL</b> dspencer@billbarrettcorp.com				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> 20G0005608			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> Gary Stringham/Little Red Creek Cattle Company, LLC						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b> 801-380-1055				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> PO Box 332, ,						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
LOCATION AT SURFACE		744 FSL 776 FWL		SWSW	7	3.0 S	6.0 W	U		
Top of Uppermost Producing Zone		678 FSL 1311 FWL		SWSW	7	3.0 S	6.0 W	U		
At Total Depth		660 FSL 1480 FWL		SESW	7	3.0 S	6.0 W	U		
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 2476			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 640				
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 2380			<b>26. PROPOSED DEPTH</b> MD: 11286 TVD: 11225				
<b>27. ELEVATION - GROUND LEVEL</b> 6261			<b>28. BOND NUMBER</b> LPM8874725			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> Duchesne City Culinary Water Dock				
<b>Hole, Casing, and Cement Information</b>										
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
<b>Cond</b>	26	16	0 - 80	65.0	Unknown	8.8	Unknown	0	0.0	0.0
<b>Surf</b>	14.75	10.75	0 - 3500	45.5	J-55 LT&C	8.8	Halliburton Light , Type Unknown	940	3.16	11.0
							Halliburton Premium , Type Unknown	360	1.36	14.8
<b>Prod</b>	9.875	5.5	0 - 11286	17.0	P-110 LT&C	9.7	Unknown	750	2.31	11.0
							Unknown	1020	1.42	13.5
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
<b>NAME</b> Elaine Winick			<b>TITLE</b> Sr. Permit Analyst			<b>PHONE</b> 303 293-9100				
<b>SIGNATURE</b>			<b>DATE</b> 03/01/2011			<b>EMAIL</b> ewinick@billbarrettcorp.com				
<b>API NUMBER ASSIGNED</b> 43013506130000			<b>APPROVAL</b> <div style="text-align: center;">             Permit Manager         </div>							

**BILL BARRETT CORPORATION**  
**DRILLING PLAN**  
02/08/2011

**14-7D-36 BTR Well Pad**

SWSW, 744' FSL, 776' FWL, Section 7, T3S, R6W, USB&M (surface hole)

SESW, 660' FSL, 1480' FWL, Section 7, T3S, R6W, USB&M (bottom hole)

Duchesne County, UT

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth – TVD</u>
Lower Green River	6705'*	6660'*
Douglas Creek	7513'	7455'
Black Shale	8016'	7955'
Castle Peak	8296'	8235'
Wasatch	9096'*	9035'*
TD	11,286'	11,225'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

**3. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 3500'	No pressure control required
3500' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
(FROM)	(TO)						
26"	Surface	80'	16"	65#			
14 3/4"	surface	3500'	10-3/4"	45.5#	J or K 55	BT&C	New
9-7/8" & 8-3/4"	surface	TD	5 1/2"	17#	P-110	LT&C	New
<b>NOTE: If necessary due to lost circulation, BBC would like to request the option to set 7-5/8", 33.70# P-110 LT&amp;C to a depth of 6000', then drill a 6-1/2" hole to TD and run 5-1/2" casing as a 2000' liner (200' liner lap).</b>							

Bill Barrett Corporation  
Drilling Program  
# 14-7D-36 BTR  
Duchesne County, Utah

## 5. Cementing Program

<u>Casing</u>	<u>Cement</u>
16" Conductor Casing	Grout
14-3/4" hole for 10-3/4" Surface Casing	Lead with approximately 940 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. Tail with approximately 360 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx). Calculated hole volume with 75% excess.
9-7/8 hole for 5 1/2" Production Casing May reduce hole size to 8-3/4" at 6000' if minimal hole problems.	Lead with approximately 750 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). Tail with approximately 1020 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Planned TOC 3000'
<p><b>NOTE: If 7-5/8" casing is necessary, cement with Lead with approximately 700 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft<sup>3</sup>/sx). Tail with approximately 240 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft<sup>3</sup>/sx). Planned TOC surface. We will perform a FIT to 10.2 ppg after drilling 20' of new hole.</b></p> <p><b>The 5-1/2" liner would be cemented with 300 sx of Class G 50/50 Poz w/ 2% gel (14.2 ppg) with additives from TD to 200' above TOL.</b></p>	

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 3500'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
3500' – TD	8.6 – 9.7	42-52	20 cc or less	DAP Polymer Fluid System
<p>Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.</p>				

## 7. Testing, Logging and Core Programs

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.
<p><b>NOTE: If BBC pursues the "Alternate" program, a suite of the above logs will be run on both the intermediate and production hole sections.</b></p>	

Bill Barrett Corporation  
Drilling Program  
# 14-7D-36 BTR  
Duchesne County, Utah

**8. Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 5604 psi\* and maximum anticipated surface pressure equals approximately 3134 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A - (0.22 x TD)

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**11. Drilling Schedule**

Location Construction: Approximately 07/01/2011  
Spud: Approximately 7/15/2011  
Duration: 15 days drilling time  
45 days completion time



**PRESSURE CONTROL EQUIPMENT** – Schematic Attached

**A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer.** The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes with one (1) remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Pressure gauge on choke manifold.
13. Fill-up line above the uppermost preventer.

**B. Pressure Rating:** 5,000 psi

**C. Testing Procedure:**

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

**D. Choke Manifold Equipment:**

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

**E. Accumulator:**

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

**F. Miscellaneous Information:**

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.



# Bill Barrett Corporation

## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

AS OF: 2/8/2011

**Well Name:** 14-7D-36 BTR

**Surface Hole Data:**

Total Depth:	3,500'
Top of Cement:	0'
OD of Hole:	14.750"
OD of Casing:	10.750"

**Calculated Data:**

Lead Volume:	2920.7	ft <sup>3</sup>
Lead Fill:	3,000'	
Tail Volume:	486.8	ft <sup>3</sup>
Tail Fill:	500'	

**Cement Data:**

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

**Calculated # of Sacks:**

# SK's Lead:	940
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Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	3,000'	

# SK's Tail:	360
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**Production Hole Data:**

Total Depth:	11,286'
Top of Cement:	3,000'
Top of Tail:	7,515'
OD of Hole:	8.750"
OD of Casing:	5.500"

**Calculated Data:**

Lead Volume:	1710.7	ft <sup>3</sup>
Lead Fill:	4,515'	
Tail Volume:	1428.9	ft <sup>3</sup>
Tail Fill:	3,771'	

**Cement Data:**

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

**Calculated # of Sacks:**

# SK's Lead:	750
# SK's Tail:	1020

<b>14-7D-36 BTR Proposed Cementing Program</b>
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<u>Job Recommendation</u>	<u>Surface Casing</u>		
<b>Lead Cement - (3000' - 0')</b>			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	3,000'	
	Volume:	520.16	bbl
	<b>Proposed Sacks:</b>	<b>940</b>	<b>sks</b>
<b>Tail Cement - (TD - 3000')</b>			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft <sup>3</sup> /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	3,000'	
	Calculated Fill:	500'	
	Volume:	86.69	bbl
	<b>Proposed Sacks:</b>	<b>360</b>	<b>sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>		
<b>Lead Cement - (7515' - 3000')</b>			
Tuned Light™ System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft³/sk
	Total Mixing Fluid:	10.65	Gal/sk
	Top of Fluid:	3,000'	
	Calculated Fill:	4,515'	
	Volume:	304.66	bbl
	<b>Proposed Sacks:</b>	<b>750</b>	<b>sks</b>
<b>Tail Cement - (11286' - 7515')</b>			
Econocem™ System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft³/sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:	6.61	Gal/sk
	Top of Fluid:	7,515'	
	Calculated Fill:	3,771'	
	Volume:	254.48	bbl
	<b>Proposed Sacks:</b>	<b>1020</b>	<b>sks</b>

# T3S, R6W, U.S.B.&M.

## BILL BARRETT CORPORATION

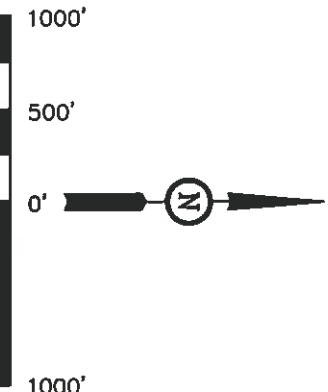
Well location, #14-7D-36 BTR, located as shown in Lot 4 of Section 7, T3S, R6W, U.S.B.&M., Duchesne County, Utah.

### BASIS OF ELEVATION

SPOT ELEVATION AT A ROAD INTERSECTION LOCATED IN THE NW 1/4 OF SECTION 36, T3S, R6W, U.S.B.&M., TAKEN FROM THE RABBIT GULCH QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5904 FEET.

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT KAY  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

REVISED: 08-30-10

UNTIAH ENGINEERING & LAND SURVEYING  
86 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'  
DATE SURVEYED: 10-20-09 DATE DRAWN: 12-14-09

PARTY D.R. Z.L. C.H. REFERENCES G.L.O. PLAT

WEATHER COLD FILE BILL BARRETT CORPORATION

R/R  
7/6  
W/W

S89°54'E - 5148.00' (G.L.O.)

NORTH - 2640.00' (G.L.O.)

Set Marked Stone

500°24'34"W - 2644.96' (Meas.)

Set Stone

Lot 1  
Lot 2  
Lot 3  
Lot 4  
#14-7D-36 BTR  
Elev. Ungraded Ground = 6261'  
Bottom Hole  
776'  
744'  
1480'  
660'

S89°30'39"E - 2518.39' (Meas.)

Set Marked Stone

N89°24'08"E - 2612.44' (Meas.)

N00°04'W - 5280.00' (G.L.O.)

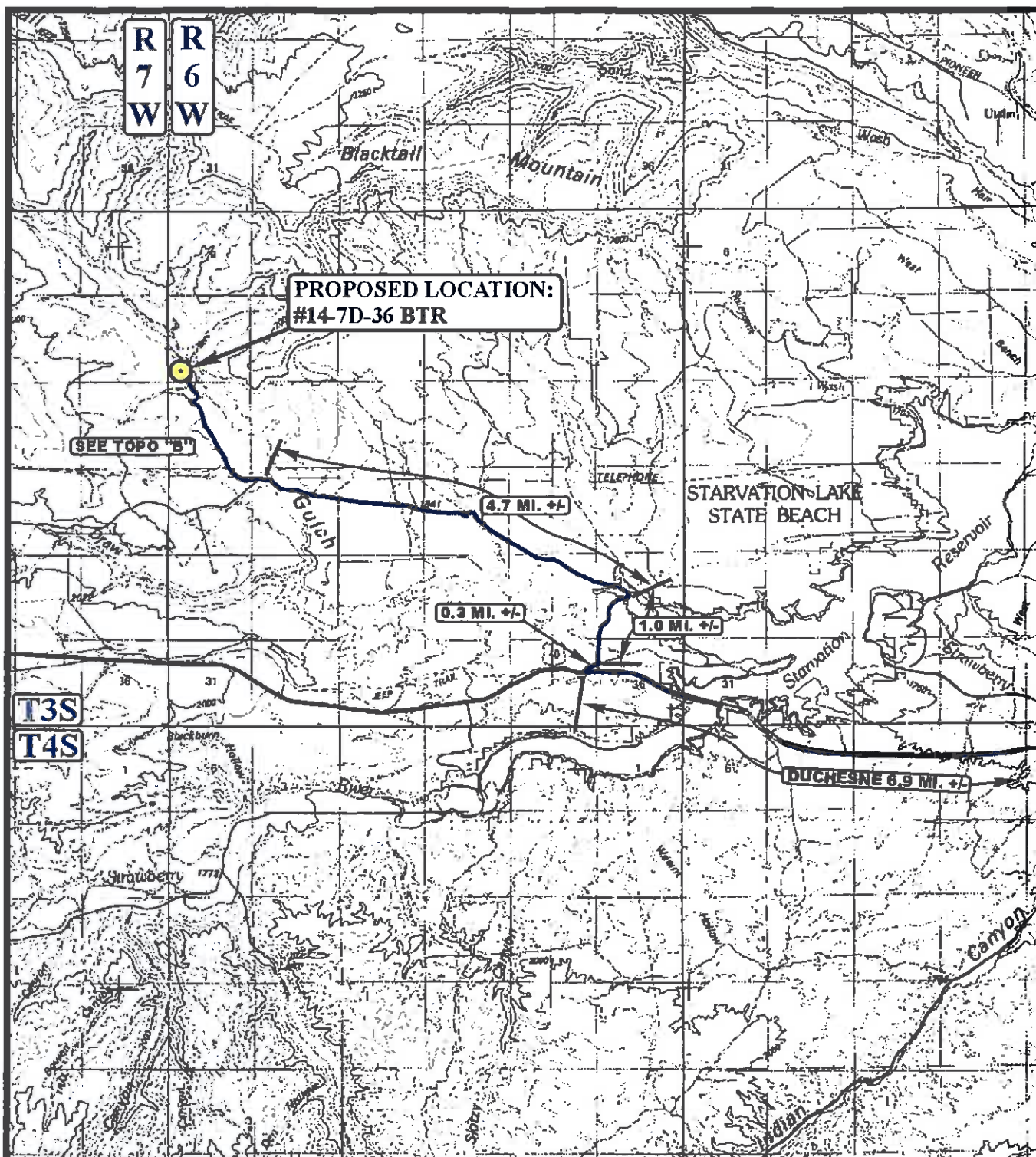
LINE TABLE		
LINE	BEARING	LENGTH
L1	S82°41'36"E	709.52'

### LEGEND:

- 90° SYMBOL
- PROPOSED WELL HEAD.
- SECTION CORNERS LOCATED

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°13'43.10"	(40.228639)	LATITUDE = 40°13'43.99"	(40.228686)
LONGITUDE = 110°36'35.03"	(110.609731)	LONGITUDE = 110°36'44.11"	(110.612253)
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°13'43.28"	(40.228683)	LATITUDE = 40°13'44.15"	(40.228931)
LONGITUDE = 110°36'32.46"	(110.609017)	LONGITUDE = 110°36'41.54"	(110.611539)





**LEGEND:**

PROPOSED LOCATION



**BILL BARRETT CORPORATION**

**#14-7D-36 BTR**  
**SECTION 7, T3S, R6W, U.S.B.&M.**  
**744' FSL 776' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

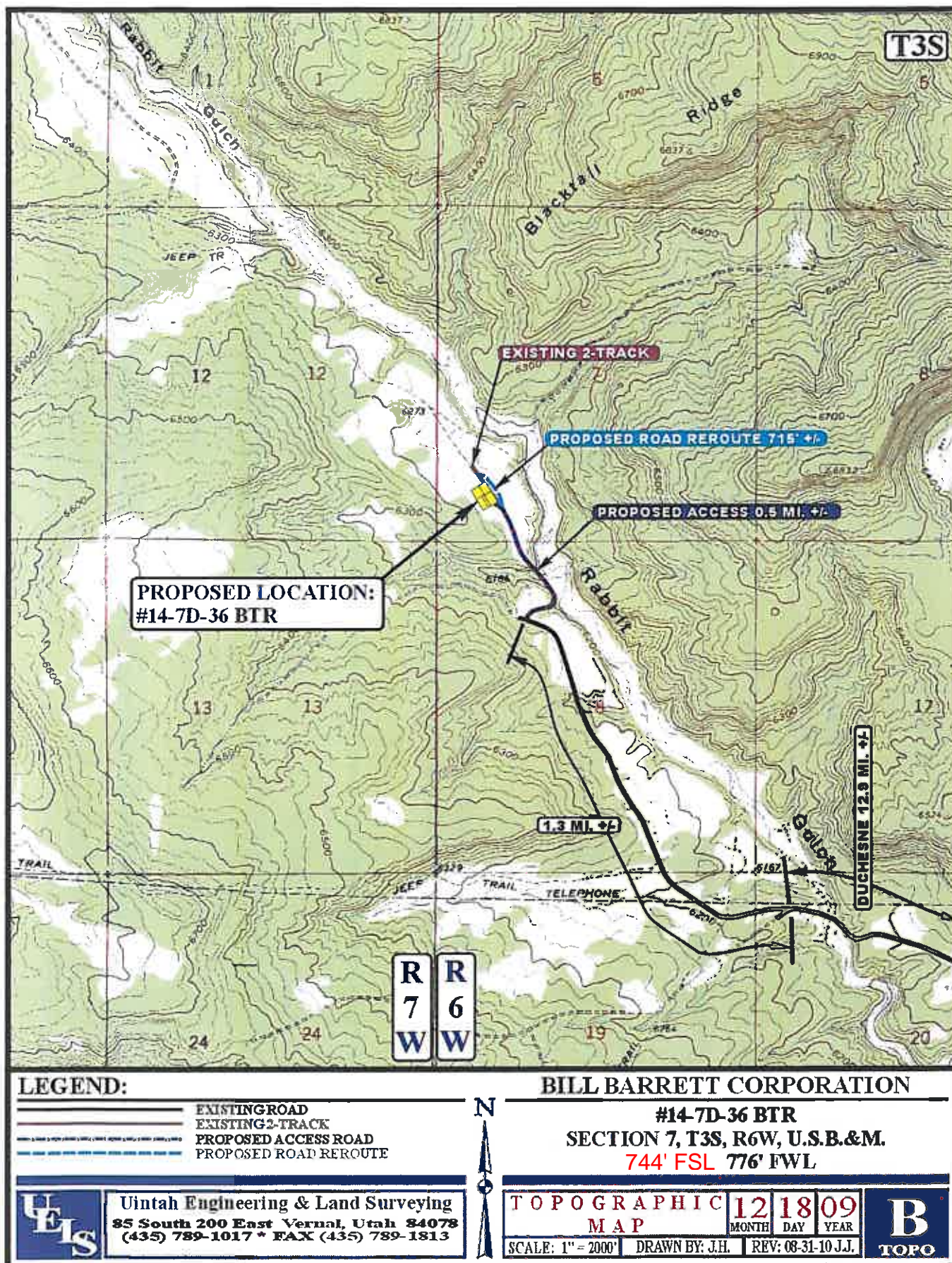
**TOPOGRAPHIC  
MAP**

**12 18 09**  
 MONTH DAY YEAR

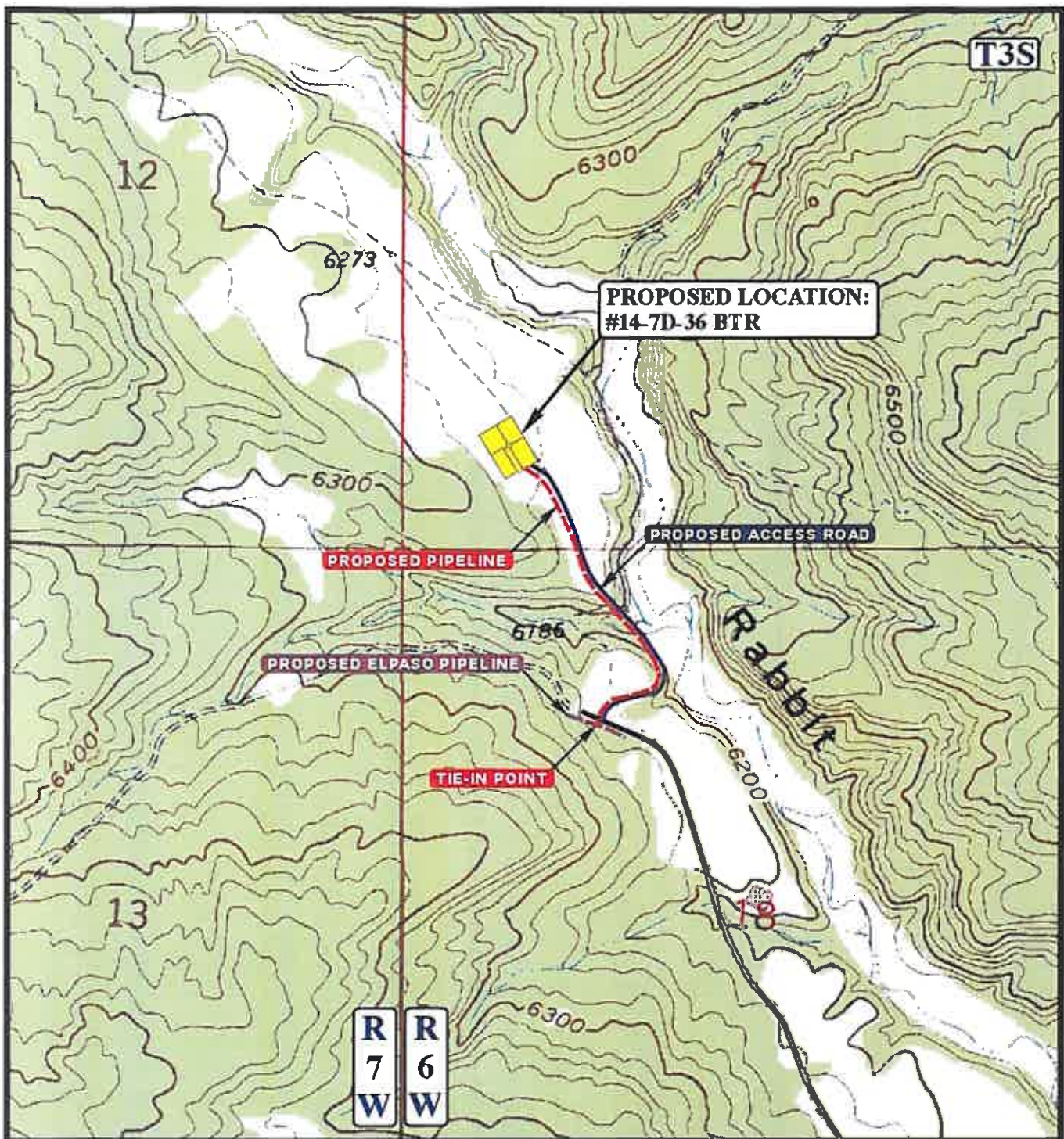
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**APPROXIMATE TOTAL PIPELINE DISTANCE = 2,420' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- PROPOSED PIPELINE
- - - - - PROPOSED PIPELINE (SERVICING OTHER WELLS)



**BILL BARRETT CORPORATION**

**#14-7D-36 BTR**  
**SECTION 7, T3S, R6W, U.S.B.&M.**  
**744' FSL 776' FWL**



**Uintah Engineering & Land Surveying**  
**85 South 200 East Vernal, Utah 84078**  
**(435) 789-1017 \* FAX (435) 789-1813**

**TOPOGRAPHIC**  
**MAP**

**12 18 09**  
 MONTH DAY YEAR

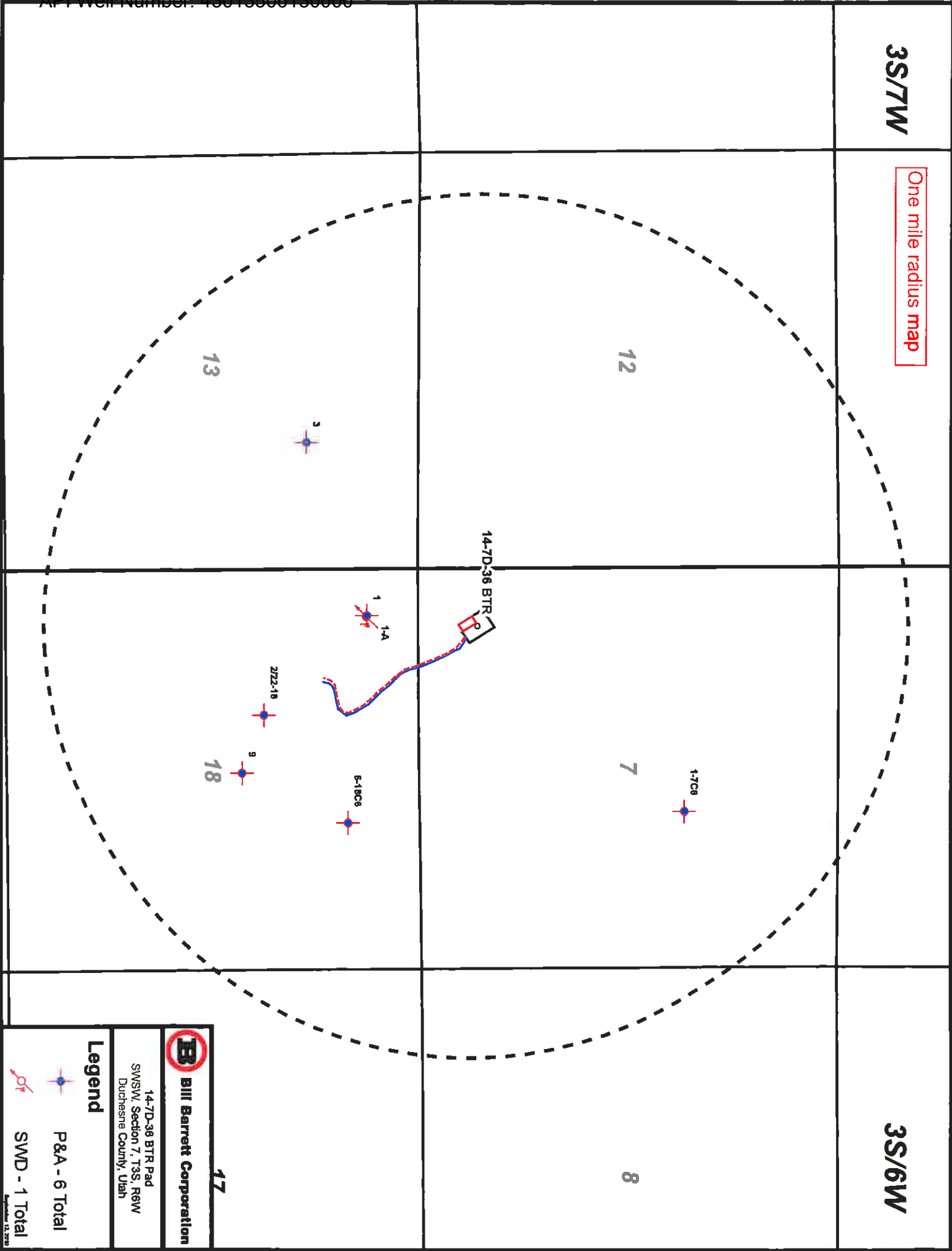
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3S/7W

One mile radius map

3S/6W



Bill Barrett Corporation

14-7D-36 BTR Pad  
SWSW, Section 7, T3S, R6W  
Duchesne County, Utah

Legend



P&A - 6 Total



SWD - 1 Total

BILL BARRETT CORPORATION  
#14-7D-36 BTR  
SECTION 7, T3S, R6W, U.S.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM DUCHESNE, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTELY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY, THEN WESTERLY DIRECTION APPROXIMATELY 4.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 14.7 MILES.



# BILL BARRETT CORPORATION

#14-7D-36 BTR

LOCATED IN DUCHESNE COUNTY, UTAH

SECTION 7, T3S, R6W, U.S.B.&M.

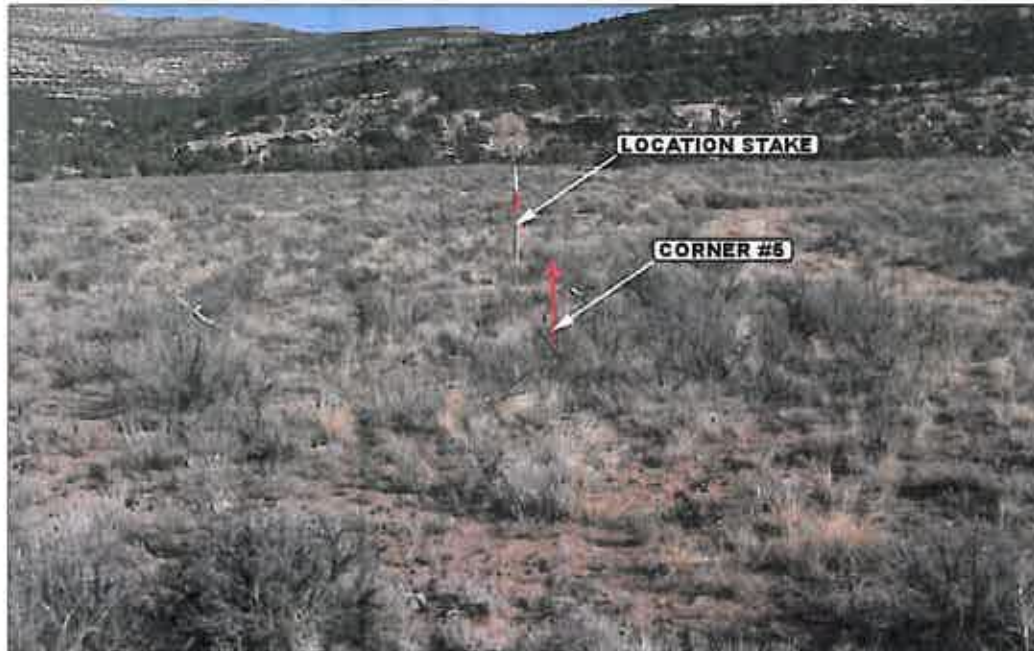


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

LOCATION PHOTOS

12 18 09  
MONTH DAY YEAR

PHOTO

TAKEN BY: D.R.

DRAWN BY: J.H.

REV: 08-31-10 J.J.

**Bill Barrett Corp**  
Duchesne County, UT (NAD 1927)  
Sec. 7-T3S-R6W  
#14-7D-36 BTR

**Plan #1**

**Plan: Plan #1 Proposal**

# **Sperry Drilling Services**

## **Proposal Report**

**03 November, 2010**

Well Coordinates: 691,666.49 N, 2,248,063.89 E (40° 13' 44.15" N, 110° 36' 41.54" W)

Ground Level: 6,260.00 ft

Local Coordinate Origin:

Centered on Well #14-7D-36 BTR

Viewing Datum:

KB @ 6275.00ft (Patterson 506)

TVDs to System:

N

North Reference:

True

Unit System:

API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 43I

**HALLIBURTON**

**Plan Report for #14-7D-36 BTR - Plan #1 Proposal**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>KOP - Begin 2.0°/100' Build at 3500.00ft</b>										
3,600.00	2.00	97.02	3,599.98	-0.21	1.73	1.75	2.00	2.00	0.00	97.02
3,700.00	4.00	97.02	3,699.84	-0.85	6.93	6.98	2.00	2.00	0.00	0.00
3,800.00	6.00	97.02	3,799.45	-1.92	15.58	15.69	2.00	2.00	0.00	0.00
3,900.00	8.00	97.02	3,898.70	-3.41	27.67	27.88	2.00	2.00	0.00	0.00
4,000.00	10.00	97.02	3,997.47	-5.32	43.20	43.52	2.00	2.00	0.00	0.00
4,009.97	10.20	97.02	4,007.28	-5.53	44.93	45.27	2.00	2.00	0.00	0.00
<b>End of Build at 4009.97ft</b>										
4,100.00	10.20	97.02	4,095.89	-7.48	60.75	61.21	0.00	0.00	0.00	0.00
4,200.00	10.20	97.02	4,194.31	-9.64	78.33	78.92	0.00	0.00	0.00	0.00
4,300.00	10.20	97.02	4,292.73	-11.81	95.90	96.63	0.00	0.00	0.00	0.00
4,400.00	10.20	97.02	4,391.15	-13.97	113.48	114.33	0.00	0.00	0.00	0.00
4,500.00	10.20	97.02	4,489.57	-16.13	131.05	132.04	0.00	0.00	0.00	0.00
4,541.08	10.20	97.02	4,530.00	-17.02	138.27	139.32	0.00	0.00	0.00	0.00
<b>Green River</b>										
4,600.00	10.20	97.02	4,587.99	-18.30	148.63	149.75	0.00	0.00	0.00	0.00
4,700.00	10.20	97.02	4,686.41	-20.46	166.20	167.46	0.00	0.00	0.00	0.00
4,800.00	10.20	97.02	4,784.83	-22.62	183.78	185.16	0.00	0.00	0.00	0.00
4,900.00	10.20	97.02	4,883.25	-24.79	201.35	202.87	0.00	0.00	0.00	0.00
5,000.00	10.20	97.02	4,981.67	-26.95	218.93	220.58	0.00	0.00	0.00	0.00
5,100.00	10.20	97.02	5,080.09	-29.11	236.50	238.29	0.00	0.00	0.00	0.00
5,200.00	10.20	97.02	5,178.51	-31.28	254.08	255.99	0.00	0.00	0.00	0.00

## Plan Report for #14-7D-36 BTR - Plan #1 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,300.00	10.20	97.02	5,276.92	-33.44	271.65	273.70	0.00	0.00	0.00	0.00
5,400.00	10.20	97.02	5,375.34	-35.60	289.23	291.41	0.00	0.00	0.00	0.00
5,500.00	10.20	97.02	5,473.76	-37.77	306.80	309.12	0.00	0.00	0.00	0.00
5,600.00	10.20	97.02	5,572.18	-39.93	324.38	326.82	0.00	0.00	0.00	0.00
5,700.00	10.20	97.02	5,670.60	-42.10	341.95	344.53	0.00	0.00	0.00	0.00
5,800.00	10.20	97.02	5,769.02	-44.26	359.53	362.24	0.00	0.00	0.00	0.00
<b>Hold Angle at 10.20°</b>										
5,900.00	10.20	97.02	5,867.44	-46.42	377.10	379.94	0.00	0.00	0.00	0.00
6,000.00	10.20	97.02	5,965.86	-48.59	394.68	397.65	0.00	0.00	0.00	0.00
6,100.00	10.20	97.02	6,064.28	-50.75	412.25	415.36	0.00	0.00	0.00	0.00
6,200.00	10.20	97.02	6,162.70	-52.91	429.83	433.07	0.00	0.00	0.00	0.00
6,300.00	10.20	97.02	6,261.12	-55.08	447.40	450.77	0.00	0.00	0.00	0.00
6,400.00	10.20	97.02	6,359.54	-57.24	464.98	468.48	0.00	0.00	0.00	0.00
6,500.00	10.20	97.02	6,457.96	-59.40	482.55	486.19	0.00	0.00	0.00	0.00
6,600.00	10.20	97.02	6,556.38	-61.57	500.13	503.90	0.00	0.00	0.00	0.00
6,700.00	10.20	97.02	6,654.80	-63.73	517.70	521.60	0.00	0.00	0.00	0.00
6,705.28	10.20	97.02	6,660.00	-63.84	518.63	522.54	0.00	0.00	0.00	0.00
<b>TGR3</b>										
6,800.00	10.20	97.02	6,753.22	-65.89	535.28	539.31	0.00	0.00	0.00	0.00
6,900.00	10.20	97.02	6,851.64	-68.06	552.85	557.02	0.00	0.00	0.00	0.00
7,000.00	10.20	97.02	6,950.06	-70.22	570.43	574.73	0.00	0.00	0.00	0.00
7,100.00	10.20	97.02	7,048.48	-72.38	588.00	592.43	0.00	0.00	0.00	0.00
7,200.00	10.20	97.02	7,146.90	-74.55	605.58	610.14	0.00	0.00	0.00	0.00
7,300.00	10.20	97.02	7,245.32	-76.71	623.15	627.85	0.00	0.00	0.00	0.00
7,400.00	10.20	97.02	7,343.74	-78.88	640.73	645.56	0.00	0.00	0.00	0.00
7,500.00	10.20	97.02	7,442.16	-81.04	658.30	663.26	0.00	0.00	0.00	0.00
7,505.65	10.20	97.02	7,447.72	-81.16	659.30	664.26	0.00	0.00	0.00	0.00
<b>Begin 2.0°/100ft Drop to Vertical at 7505.65ft</b>										
7,513.05	10.05	97.02	7,455.00	-81.32	660.59	665.56	2.00	-2.00	0.00	180.00
<b>Douglas Creek</b>										
7,600.00	8.31	97.02	7,540.84	-83.01	674.36	679.44	2.00	-2.00	0.00	-180.00
7,700.00	6.31	97.02	7,640.02	-84.57	686.99	692.17	2.00	-2.00	0.00	180.00
7,800.00	4.31	97.02	7,739.58	-85.70	696.18	701.42	2.00	-2.00	0.00	180.00
7,895.58	2.40	97.02	7,835.00	-86.38	701.73	707.02	2.00	-2.00	0.00	-180.00
<b>3Point Marker</b>										
7,900.00	2.31	97.02	7,839.41	-86.41	701.91	707.20	2.00	-2.00	0.00	180.00
8,000.00	0.31	97.02	7,939.38	-86.69	704.18	709.49	2.00	-2.00	0.00	180.00
8,015.62	0.00	0.00	7,955.00	-86.69	704.23	709.53	2.00	-2.00	0.00	-180.00
<b>End of Drop at 8015.62ft - Black Shale</b>										
8,100.00	0.00	0.00	8,039.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,139.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,295.62	0.00	0.00	8,235.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>Castle Peak</b>										
8,300.00	0.00	0.00	8,239.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,339.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,439.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,539.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,639.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,739.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,839.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,965.62	0.00	0.00	8,905.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR1</b>										
9,000.00	0.00	0.00	8,939.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,095.62	0.00	0.00	9,035.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>Wasatch</b>										
9,100.00	0.00	0.00	9,039.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,139.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,239.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,345.62	0.00	0.00	9,285.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00

**Plan Report for #14-7D-36 BTR - Plan #1 Proposal**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
<b>CR2</b>										
9,400.00	0.00	0.00	9,339.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,439.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,539.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,695.62	0.00	0.00	9,635.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>Uteland Butte</b>										
9,700.00	0.00	0.00	9,639.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,705.62	0.00	0.00	9,645.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR3</b>										
9,800.00	0.00	0.00	9,739.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,839.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	9,939.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,035.62	0.00	0.00	9,975.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR4</b>										
10,100.00	0.00	0.00	10,039.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,139.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,239.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,350.62	0.00	0.00	10,290.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR4A</b>										
10,400.00	0.00	0.00	10,339.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,490.62	0.00	0.00	10,430.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR5</b>										
10,500.00	0.00	0.00	10,439.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,539.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,660.62	0.00	0.00	10,600.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR6</b>										
10,700.00	0.00	0.00	10,639.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,739.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,839.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,985.62	0.00	0.00	10,925.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR7</b>										
11,000.00	0.00	0.00	10,939.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
11,100.00	0.00	0.00	11,039.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
11,200.00	0.00	0.00	11,139.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
11,285.62	0.00	0.00	11,225.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>Total Depth at 11285.62ft</b>										

**Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,500.00	3,500.00	0.00	0.00	KOP - Begin 2.0°/100' Build at 3500.00ft
4,009.97	4,007.28	-5.53	44.93	End of Build at 4009.97ft
5,800.00	5,769.02	-44.26	359.53	Hold Angle at 10.20°
7,505.65	7,447.72	-81.16	659.30	Begin 2.0°/100ft Drop to Vertical at 7505.65ft
8,015.62	7,955.00	-86.69	704.23	End of Drop at 8015.62ft
11,285.62	11,225.00	-86.69	704.23	Total Depth at 11285.62ft

**Vertical Section Information**

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
Target	14-7D-36 BTR_Plan1_BHL Tgt	97.31	Slot	0.00	0.00	0.00



**Plan Report for #14-7D-36 BTR - Plan #1 Proposal****Survey tool program**

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	11,285.62	Plan #1 Proposal	MWD

**Formation Details**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,541.08	4,530.00	Green River		0.00	
6,705.28	6,660.00	TGR3		0.00	
7,513.05	7,455.00	Douglas Creek		0.00	
7,895.58	7,835.00	3Point Marker		0.00	
8,015.62	7,955.00	Black Shale		0.00	
8,295.62	8,235.00	Castle Peak		0.00	
8,965.62	8,905.00	CR1		0.00	
9,095.62	9,035.00	Wasatch		0.00	
9,345.62	9,285.00	CR2		0.00	
9,695.62	9,635.00	Uteland Butte		0.00	
9,705.62	9,645.00	CR3		0.00	
10,035.62	9,975.00	CR4		0.00	
10,350.62	10,290.00	CR4A		0.00	
10,490.62	10,430.00	CR5		0.00	
10,660.62	10,600.00	CR6		0.00	
10,985.62	10,925.00	CR7		0.00	

***Targets associated with this wellbore***

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
14-7D-36 BTR_Plan1_BHL Tgt	11,225.00	-90.34	704.23	Point
14-7D-36 BTR_Plan1_Zone Tgt	7,955.00	-86.69	704.23	Circle

**North Reference Sheet for Sec. 7-T3S-R6W - #14-7D-36 BTR - Plan #1**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to KB @ 6275.00ft (Patterson 506). Northing and Easting are relative to #14-7D-36 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -111.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99992241

Grid Coordinates of Well: 691,666.49 ft N, 2,248,063.89 ft E

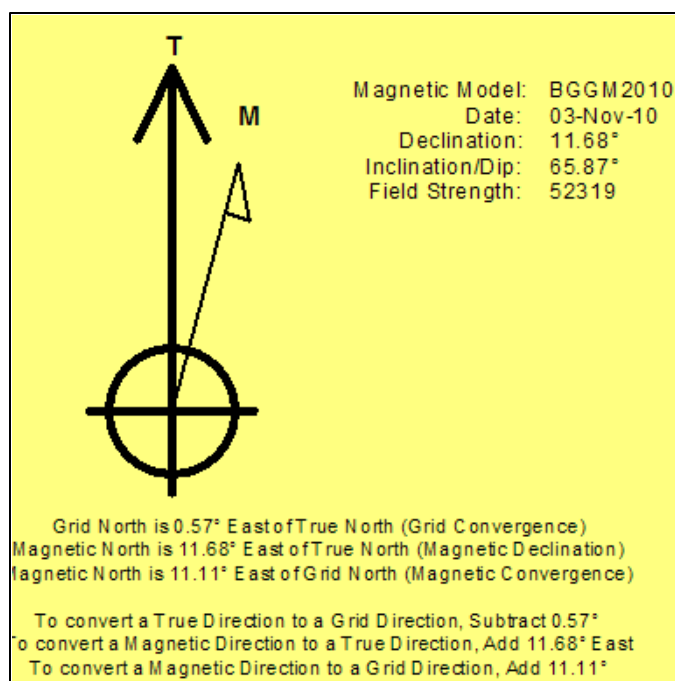
Geographical Coordinates of Well: 40° 13' 44.15" N, 110° 36' 41.54" W

Grid Convergence at Surface is: 0.57°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,285.62ft

the Bottom Hole Displacement is 709.54ft in the Direction of 97.02° (True).

Magnetic Convergence at surface is: -11.11° ( 3 November 2010, , BGGM2010)



Project: Duchesne County, UT (NAD 1927)

Site: Sec. 7-T3S-R6W

Well: #14-7D-36 BTR

Wellbore: Plan #1

Plan: Plan #1 Proposal

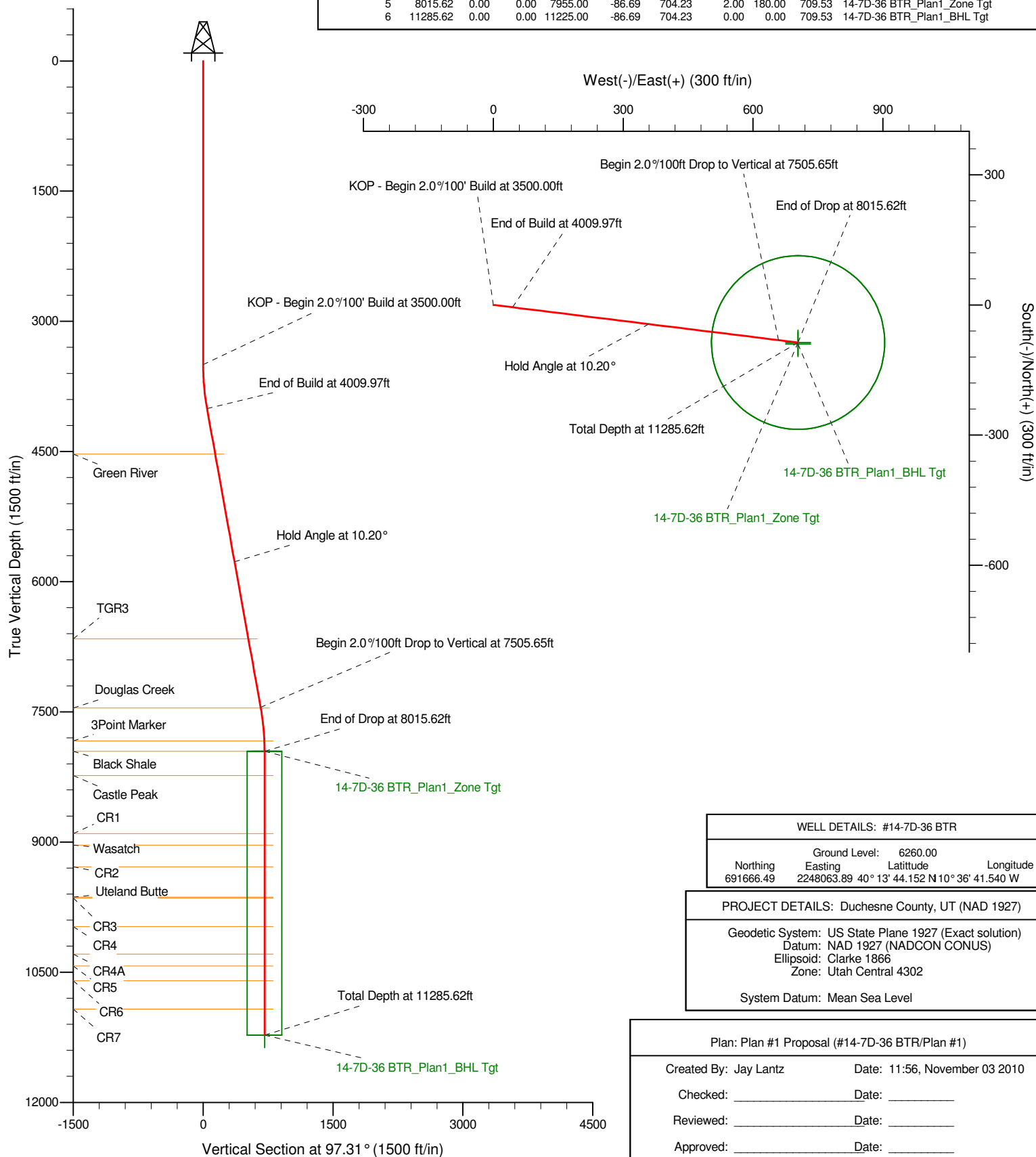
## Bill Barrett Corp

HALLIBURTON

Sperry Drilling

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	
3	4009.97	10.20	97.02	4007.29	-5.53	44.93	2.00	97.02	45.27	
4	7505.65	10.20	97.02	7447.71	-81.16	659.29	0.00	0.00	664.26	
5	8015.62	0.00	0.00	7955.00	-86.69	704.23	2.00	180.00	709.53	14-7D-36 BTR_Plan1_Zone Tgt
6	11285.62	0.00	0.00	11225.00	-86.69	704.23	0.00	0.00	709.53	14-7D-36 BTR_Plan1_BHL Tgt



RECEIVED: Mar. 01, 2011

Well name was changed from 13-7-36 BTR  
to 14-7D-36 BTR after the Surface Use  
Agreements were signed.

STATE OF UTAH  
COUNTY OF DUCHESNE

## SURFACE LAND USE AGREEMENT

### KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, Allen Kent Anderson and Jacqueline K. Anderson, husband and wife, as Joint Tenants, and Murland R. Packer whose mailing address is 1485 West 600 South, Salt Lake City, UT 84104 (hereinafter referred to as GRANTOR), whether one or more), is the owner of the surface of the following described property located in Duchesne County, Utah, to-wit:

TOWNSHIP 3 SOUTH, RANGE 6 WEST, USM  
Section 18: NE1/4NW1/4

See Exhibits "A" Attached

WHEREAS, Bill Barrett Corporation., whose address is 1099 18<sup>th</sup> Street, Suite 2300, Denver, CO 80202 (hereinafter referred to as GRANTEE) desires to construct a pipeline or pipelines and appurtenances thereto for the transportation of natural gas, water, saltwater and other substances on a portion of said property.

WHEREAS, Grantee has agreed to reimburse Grantor for actual damages and injuries to all crops, timber, fences and other improvements located on the surface which results from grantee's operations hereunder, provided that Grantee shall not be held liable or responsible for acts of providence or occurrences beyond Grantee's control, such payment to be made upon commencement of operations to construct the road and pipeline or pipelines; so,

NOW THEREFORE, for and in consideration of the sum of ten dollars (\$10.00) and other valuable considerations, the receipt and sufficiency of which is hereby acknowledged, Grantor does hereby grant, sell and convey unto Grantee, its successors and assigns, the easement and right to use that portion of the herein above described property as may be necessary to construct, entrench, maintain, operate, replace, remove, protect or abandon a pipeline or pipelines for the transportation of natural gas, water, saltwater and other substances exclusively with appurtenances thereto, including, but not limited to, valves, metering equipment, and cathodic equipment (said access road, pipeline or pipelines, appurtenances, valves, metering equipment, cathodic equipment being sometimes collectively called the "facilities") over, under and through the hereinafter described land as described in the attached Exhibit "A". Said pipelines or pipelines to be buried to a depth of not less than three (3) feet below the surface of the ground.

Grantee shall have the free right of ingress and egress to, over, upon, through and across said right-of-way and easement for any and all purposes that may be necessary or incidental to the maintenance of the right-of-way and easement, with the right to use existing roads which enter Grantor's property for the purpose of constructing, inspecting, repairing and maintaining the facilities and the removal or replacement of same at will, either in whole or in part, and the replacement of said pipeline or pipelines with either like or different size pipe. During temporary periods, Grantee may use such portions of the property along and adjacent to said right-of-way as may be necessary in connection with construction, maintenance, repair, removal or replacement of the facilities and if such use cause any damages to Grantor's lands outside of the above described right-of-way, Grantee shall pay Grantor for such damages.

Grantor reserves the right to the use and enjoyment of said property except for the purposes herein granted, but such use shall not hinder, conflict or interfere with Grantee's surface or subsurface rights hereunder or disturb its facilities. Grantor may construct roads, fences, water lines and utilities across the easement as long as they do not cause damage to the pipeline. Prior to construction of any road, fence, water line or utility Grantor shall notify Grantee and Grantee and Grantor shall work together in cooperation to make sure the pipeline or pipelines are not damaged. No reservoir or structure shall be constructed, created or maintained on, over, along or within the lands covered by this easement without Grantee's prior written consent.

The Grantor hereby covenants and warrants that they are the surface owner of the above-described land, and have the right to enter into this agreement.

**FOR THE SAME CONSIDERATION RECITED ABOVE,** Grantor and Grantee do hereby release, discharge and acquit the other from any and all liability, and shall indemnify the other against any and all claims and demands for damages, attorneys fees, injury or loss, existing now or done hereafter, to the surface of said lands or to any third parties arising out of or being the result of their or, their agents, contractors, licensees, permittees, successors and assigns own activities on or use of the subject property. However, such parties' potential liability under this paragraph to the other shall be limited to the acts and/or omission of it, or its predecessors, agents, contractors, licensees, permittees, successors, and assigns, and shall not include any acts and/or omissions of the other party, its agents, contractors, licensees, permittees, successors or assigns. Grantee shall reasonably maintain the subject property in order to prevent unnecessary deterioration of the surface and to keep the property in an uncluttered condition.

**TO HAVE AND TO HOLD** the above described rights and easements, together with all rights necessary to operate and maintain the natural gas line over the right-of-way hereby granted unto the said Grantee, its successors and assigns, until such time as the right-of-way and easement is abandoned under the terms stipulated herein. The Grantee may assign the rights and easements herein granted, either in whole or in part, subject to the terms of this grant, and such rights and easements shall be covenants running with the land and are binding upon Grantor, Grantor's heirs, legal representatives and successors in title.

Grantee shall repair or replace any fences damaged by them, their employees or contractors with a new fence that will be exactly the same type of fence that is damaged. Grantee shall also reseed the pipeline damaged area with native grasses.

Upon abandonment of the facilities Grantee shall restore such facilities to as near its original condition as possible and shall furnish a recordable document evidencing such abandonment to Grantor, or Grantor's successors in interest, and all rights that Grantee has under the terms of this Agreement shall be terminated.

The making, execution and delivery of this document by Grantor has been induced by no representations, statements, warranties, or other agreements other than those herein expressed. This agreement embodies the entire understanding of the parties, and this instrument may be amended or modified only by subsequent written agreement of the parties.

This agreement shall inure to the benefit of the parties hereto, their heirs, successors, and assigns and shall be a burden running with the land.

**IN WITNESS WHEREOF,** this Surface Land Use Agreement is executed as of the dates of the respective acknowledgments of the parties hereto, but is effective as of the 4th day of November, 2010.

**GRANTOR:**

By: Allen Kent Anderson 12-02-10  
Allen Kent Anderson

By: Jacqueline K. Anderson  
Jacqueline K. Anderson

By: Murland R. Packer 11-17-10  
Murland R. Packer

Date: 12/02/10

**GRANTEE:**

**BILL BARRETT CORPORATION**

By: Clint W. Turner  
Clint W. Turner, as Agent for Bill Barrett Corporation

ACKNOWLEDGMENT

STATE OF CALIFORNIA

COUNTY OF

*Jacqueline K. Anderson*  
*Allen Kent Anderson*

On this 2 day of December, 2010, before me personally appeared Allen Kent Anderson and Jacqueline K. Anderson, husband and wife, known to me to be the persons who are described in and who executed the within instrument and acknowledged to me that they executed the same.

WITNESS my hand and official seal.

*Patricia Sporel*  
Notary Public  
Residing at: 1575 S. Main St.  
Salt Lake City, UT 84115

My Commission Expires: 02/13/2013



ACKNOWLEDGMENT

STATE OF UTAH

COUNTY OF Wasatch

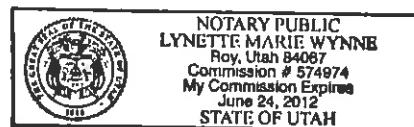
*Murland R. Packard*

On this 17<sup>th</sup> day of November, 2010, before me personally appeared Murland R. Packard known to me to be the person who is described in and who executed the within instrument and acknowledged to me that he executed the same.

WITNESS my hand and official seal.

*Lynette Marie Wynne*  
Notary Public  
Residing at:

My Commission Expires June 24, 2012



ACKNOWLEDGMENT

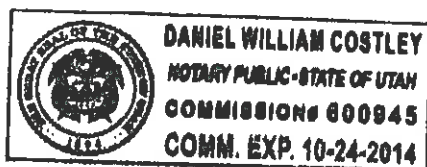
STATE OF UTAH

COUNTY OF SALT LAKE

On this 21<sup>st</sup> day of December, 2010, personally appeared before me Clint W. Turner, who, being by me duly sworn, did say that he is the Agent for Bill Barrett Corporation and that said instrument was signed in behalf of said corporation by authority of a resolution of its Board of Directors and said Clint W. Turner acknowledged to me that said corporation executed the same.

My Commission Expires: 10-24-2010

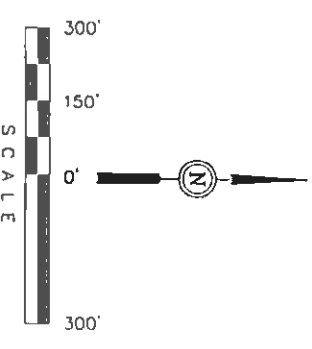
*Daniel William Costley*  
Notary Public  
Residing at:





PIPELINE RIGHT-OF-WAY  
ON FEE LANDS  
(For #13-7-36 BTR)

LOCATED IN  
SECTIONS 7 & 18, T3S, R6W,  
U.S.B.&M., DUCHESENE COUNTY, UTAH



BASIS OF BEARINGS IS A GPS OBSERVATION

RIGHT-OF-WAY LENGTHS			
PROPERTY OWNER	FEET	ACRES	RODS
LITTLE RED CREEK CATTLE CO.	683.92	0.471	41.45
ALLEN KENT ANDERSON	1707.11	1.176	103.46

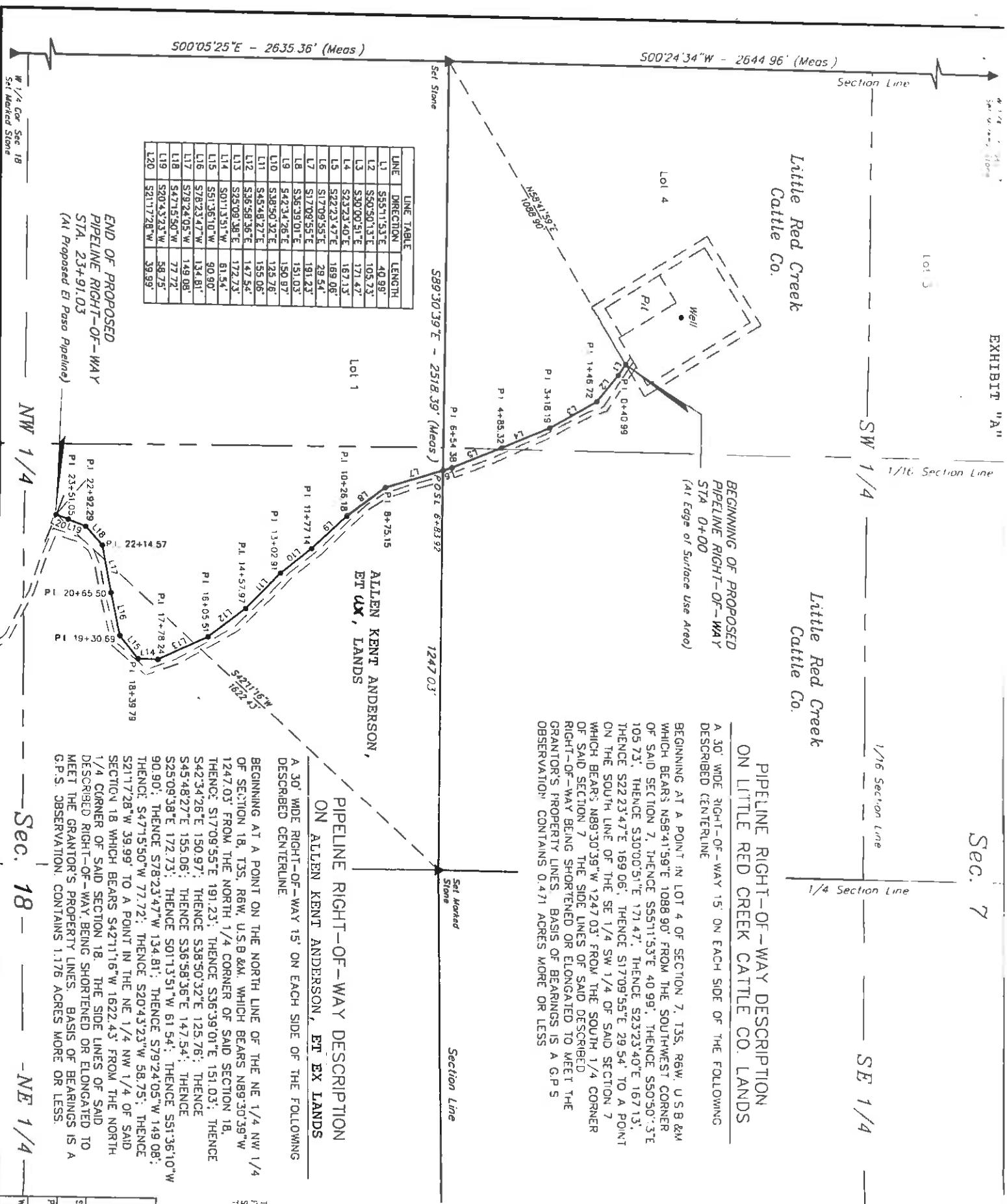
▲ = SECTION CORNERS LOCATED.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS SUBMITTED FOR FIELD NOTES OF ACTUAL SURVEYS MADE BY LAND SURVEYORS UNDER SUPERVISION AND THAT THE SAME ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

UNTAH ENGINEERING & LAND SURVEYING  
85 SOUTH - 200 EAST • (435) 789-1017  
VERNAL, UTAH - 84078

SCALE	DATE
1" = 300'	12-14-09
PARTY	REFERENCES
D.R. ZI C.H.	G.L.O. PLAT
WEATHER	FILE
COLD	4 9 6 3 7



LINE	DIRECTION	LENGTH
L1	\$55.115.3'E	40.99'
L2	\$50.50.13'E	105.3'
L3	\$30.00.51'E	171.47'
L4	\$22.23.40'E	167.3'
L5	\$33.23.47'E	169.08'
L6	\$17.09.55'E	29.54'
L7	\$17.09.55'E	191.23'
L8	\$36.39.01'E	151.03'
L9	\$42.34.26'E	128.76'
L10	\$48.50.32'E	125.75'
L11	\$45.48.27'E	155.06'
L12	\$36.36.36'E	144.54'
L13	\$25.09.38'E	172.73'
L14	\$01.13.51'W	61.54'
L15	\$51.36.19'W	90.90'
L16	\$78.31.47'W	134.81'
L17	\$79.24.05'W	149.08'
L18	\$74.75.50'W	77.72'
L19	\$20.53.23'W	58.75'
L20	\$21.17.28'W	39.99'



**SURFACE DAMAGE AND RIGHT-OF-WAY SETTLEMENT AGREEMENT**

This Agreement, made and entered into this the 15th day of July, 2010, by and between Little Red Creek Cattle Company, LLC, PO Box 332, Tabiona, UT 84072 ("Surface Owner") and Bill Barrett Corporation, 1099 18<sup>th</sup> Street, Suite 2300, Denver CO 80202, ("BBC").

WITNESSETH THAT:

WHEREAS, BBC owns undivided interests in certain oil and gas leases ("leases") covering and affecting the All of Section 7, Township 3 South, Range 6 West, USM, of Duchesne County, Utah; and,

WHEREAS, such leases grant to BBC the right and privilege of ingress, egress, exploring, drilling, mining, operating for, producing and owning oil and gas and all other products produced therewith, together with the right to make surveys on said lands, lay pipelines, construct roads and bridges, dig canals, build power stations, telephone lines, employee houses and other structures on said lands, necessary or useful in BBC's operations; and,

WHEREAS, BBC, pursuant to its rights under the Leases, intends to drill the #13-7-36 BTR well at a legal drill-site location in the S1/2SW1/4 of Section 7, Township 3 South, Range 6 West, USM, Duchesne County, Utah; and,

WHEREAS, Surface Owner warrants ownership to the surface of at least specific portions of the S1/2SW1/4 of Section 7, Township 3 South, Range 6 West, USM, Duchesne County, Utah, and which warranted ownership is further subject to all oil, gas and other mineral rights which are reserved for the use and benefit of the owners thereof; and,

WHEREAS, BBC has agreed to reimburse Surface Owner for actual damages and injuries to all crops, timber, fences and other improvements located on the surface which results from BBC's operations hereunder, provided that BBC shall not be held liable or responsible for acts of providence or occurrences beyond BBC's control, such payment to be made upon commencement of operations to construct the wellsite pad; so,

NOW, THEREFORE, in consideration of TEN (10) AND MORE DOLLARS (\$10.00) and other good and valuable consideration paid by BBC to Surface Owner, the receipt and sufficiency of which is hereby acknowledged, said Surface Owner does hereby release BBC, its agents, employees, licensees, permittees, successors and assigns from all claims for damages as hereinafter provided, which are occasioned by any drilling, testing, completing, producing, operating, reworking and abandoning operations conducted by BBC at the above mentioned well, and agrees that BBC, its agents, employees, licensees, permittees, successors and assigns, may enter upon said premises and construct and maintain such roadways, bridges, and other means of access as are necessary to enable BBC on said location, for the purpose of erecting all necessary surface equipment, including but not limited to separators and tank battery storage facilities and other related facilities for the operating of the subject well or any other well(s) operated by BBC in the general area. Said location and road to be located as shown on Exhibit "A" attached hereto.

For the same consideration, Surface Owner does hereby grant and convey unto BBC, its successors and assigns, the right, at any time and from time to time, to lay, construct, reconstruct, replace, renew, operate, maintain, repair, change the size of, and remove pipes or pipelines for the transportation of oil, petroleum or any of its products, gas, water, saltwater and other substances, or any byproducts thereof, along, over,

through, upon under and across the route of any such lines constructed hereunder, together with rights of ingress and egress to and from said line or lines for the purposes aforesaid. At the request of Surface Owner such pipeline or pipelines shall be buried to a depth below ordinary plow depth. Such pipeline or pipelines to be constructed within the boundaries of the right-of-way granted herein as shown on Exhibit "B" attached hereto.

Surface Owner hereby releases BBC, its successors and assigns, from any and all damages and claims asserted. The consideration paid by BBC to Surface Owner is accepted by Surface Owner as full and final satisfaction for any and all damages and claims for damages to the surface which result from any of BBC's operations and privileges granted under the above Leases. Surface Owner hereby waives the right to collect any further and additional damages that may hereafter be asserted in connection with BBC's use of the land as further described on Exhibits "A and B" attached hereto and agrees to accept in lieu of any such future claims the agreed upon payment provided for in this Agreement.

Nothing herein shall alter or affect the rights of either party hereto with respect to surface use or disturbance of Surface Owner's land surrounding the drillsite locations, respectively, and BBC agrees to give Surface Owner advance notice of its intended use of any such surrounding land before commencing any operations thereon pursuant to its rights. Compensation for the use of any additional lands used by BBC shall be mutually agreed upon.

Surface Owner and BBC do hereby release, discharge and acquit the other from any and all liability, and shall indemnify the other against any and all claims and demands for damages, attorneys fees, injury or loss, existing now or done hereafter, to the surface of said lands or to any third parties arising out of or being the result of their or their agents, contractors licensees, permittees, successors and assigns own activities on or use of the subject property. However, such parties' potential liability under this paragraph to the other shall be limited to the acts and/or omission of its, or its predecessors, agents, contractors, licensees, permittees, successor and assigns, and shall not include any acts and/or omissions of the other party, its agents, contractors, licensees, permittees, successors or assigns. BBC shall reasonably maintain the subject property in order to prevent unnecessary deterioration of the surface and to keep the property in an uncluttered condition.

Any topsoil which is removed by BBC on Surface Owner's land will be stockpiled at the drillsite and will be redistributed on the drillsite upon completion of all operations and the land reseeded with grasses and/or native plants by BBC upon written request by Surface Owner. All mud pits will be filled and material and debris will be removed from the drillsite upon completion of operations. BBC shall remove from the lands covered hereby, at any time during the term hereof or within six (6) months after the plugging and abandonment of the well drilled pursuant to this Agreement, any or all structures, pipes, equipment and other facilities placed on, over, under, through and across any lands covered hereby, excepting fences, culverts, and other land improvements required by the Surface Owner, and title thereto shall be vested in BBC at all times, and shall in no event be considered or construed as fixtures thereto.

BBC shall maintain all roads used pursuant to this Agreement and shall install culverts where necessary to insure adequate drainage from all roads.

BBC shall repair or replace any fences damaged by BBC or its contractors during the term of this Agreement.

Surface Owner and their heirs or assigns shall have full access and use of the road built pursuant to this Agreement.

This Agreement shall inure to the benefit of the parties hereto, their heirs, successors and assigns and shall be a burden running with the land.

This Agreement may be executed in any number of counterparts and all such counterparts shall be deemed to constitute a single Agreement and the execution of one counterpart by any party hereto shall have the same force and effect as if said party had signed all other counterparts.

IN WITNESS WHEREOF, the parties have executed this Surface Damage Settlement Agreement effective as of the 15th day of July, 2010.

SURFACE OWNERS:  
LITTLE RED CREEK CATTLE  
COMPANY, LLC

BILL BARRETT CORPORATION

By: [Signature]  
Gary Stringham, Manager

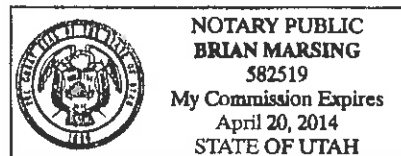
By: [Signature]  
As Agent for Bill Barrett Corporation

STATE OF UTAH )  
 )  
COUNTY OF )

On the 2 day of September, 2010, personally appeared before me Gary Stringham, as Manager of Little Red Creek Cattle Company, LLC known to me to be the persons whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and consideration therein expressed.

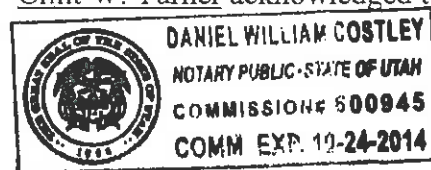
[Signature]  
Notary Public  
Residing at: Kamas UT

My Commission Expires: 4-20-14



STATE OF UTAH )  
 )  
COUNTY OF SALT LAKE )

On the 21 day of December, 2010, personally appeared before me Clint W. Turner, who, being by me duly sworn, did say that he is the Agent of Bill Barrett Corporation and that said instrument was signed in behalf of said corporation by authority of a resolution of its Board of Directors and said Clint W. Turner acknowledged to me that said corporation executed the same.



[Signature]  
Notary Public  
Residing at:

My Commission Expires: 10-24-2014

EXHIBIT "B"

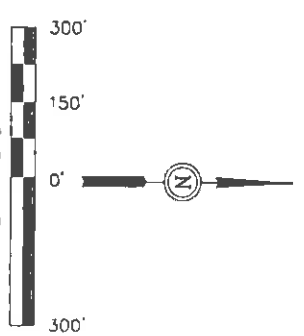
Sec. 7

BILL BARRETT COMPANY

PIPELINE RIGHT-OF-WAY  
ON FEE LANDS

(For #13-7-36 BTR)

LOCATED IN  
SECTIONS 7 & 18, T3S, R6W,  
U.S.B.&M., DUCHESENE COUNTY, UTAH



BASIS OF BEARINGS  
BASIS OF BEARINGS IS A GPS OBSERVATION

RIGHT-OF-WAY LENGTHS			
PROPERTY OWNER	FEET	ACRES	RODS
LITTLE RED CREEK CATTLE CO.	683.92	0.471	41.95
MOUNTAIN WEST RANCHES	1707.11	1.176	103.46

▲ = SECTION CORNERS LOCATED.

CERTIFICATE  
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS AND THAT THE SAME ARE TRUE AND CORRECT TO  
THE BEST OF MY KNOWLEDGE AND BELIEF.  
REGISTERED LAND SURVEYOR  
STATE OF UTAH  
EXPIRATION DATE 10/31/2019

UTAH ENGINEERING & LAND SURVEYING  
85 SOUTH - 200 EAST (4435) 789-1017  
VERNAL, UTAH - 84078

DATE	12-14-09
BY	D.R. ZL C.H.
REVISIONS	G.L.O. PLAT
REVISION	FILE
REVISION	4 9 6 3 7

BEGINNING OF PROPOSED  
PIPELINE RIGHT-OF-WAY  
STA. 0+00  
(At Edge of Surface Use Area)

PIPELINE RIGHT-OF-WAY DESCRIPTION  
ON LITTLE RED CREEK CATTLE CO. LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING  
DESCRIBED CENTERLINE  
BEGINNING AT A POINT IN LOT 4 OF SECTION 7, T3S, R6W, U.S.B.&M.  
WHICH BEARS N58°41'59"E 1088.90' FROM THE SOUTHWEST CORNER  
OF SAID SECTION 7, THENCE S55°11'53"E 40.99', THENCE S50°50'13"E  
105.73', THENCE S30°00'51"E 171.47', THENCE S23°23'40"E 167.13',  
THENCE S22°23'47"E 169.06', THENCE S17°09'55"E 29.54' TO A POINT  
ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 7  
WHICH BEARS N89°30'39"W 1247.03' FROM THE SOUTH 1/4 CORNER  
OF SAID SECTION 7. THE SIDE LINES OF SAID DESCRIBED  
RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE  
GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A GPS  
OBSERVATION. CONTAINS 0.471 ACRES MORE OR LESS

PIPELINE RIGHT-OF-WAY DESCRIPTION  
ON MOUNTAIN WEST RANCHES LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING  
DESCRIBED CENTERLINE:

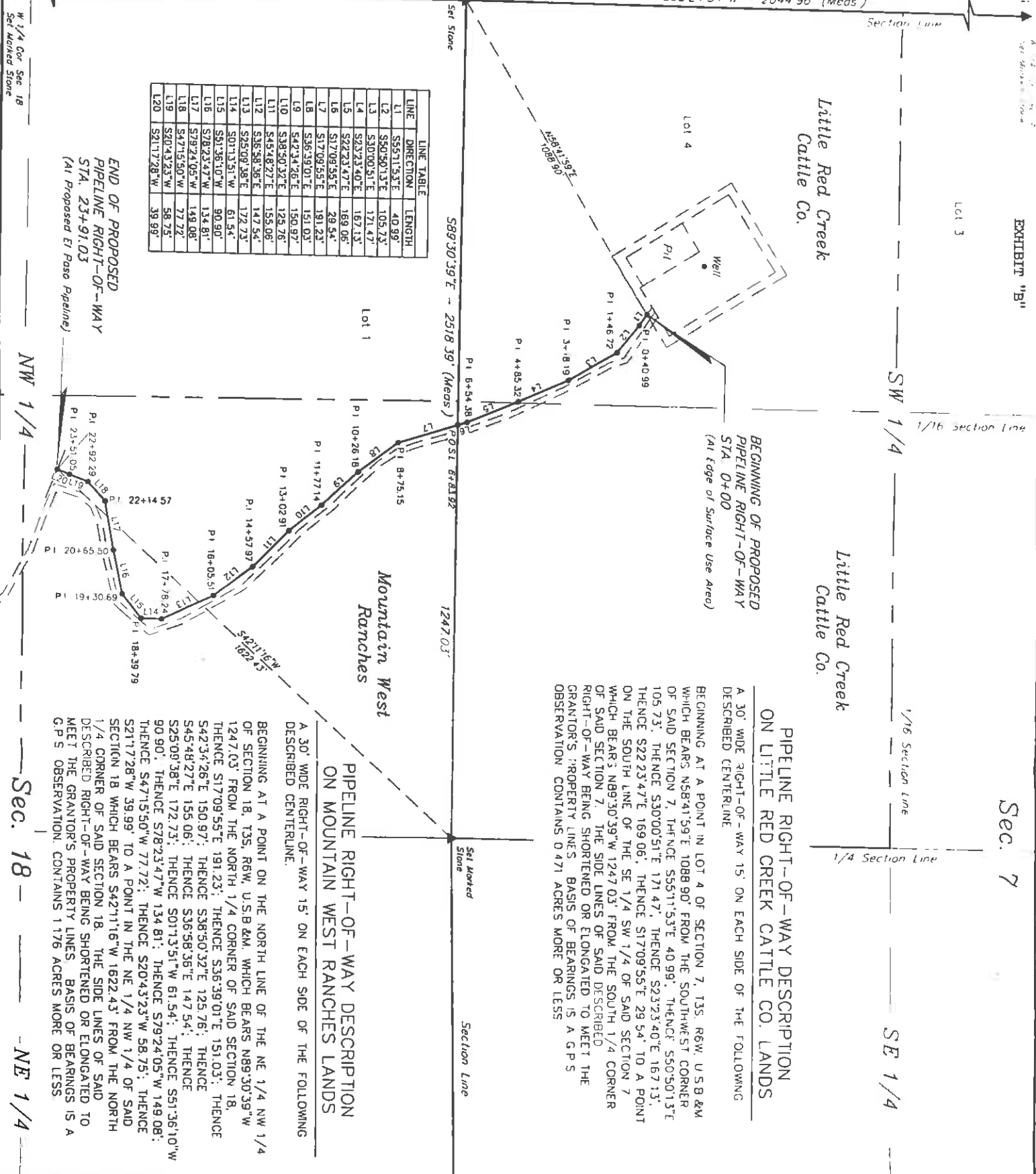
BEGINNING AT A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4  
OF SECTION 18, T3S, R6W, U.S.B.&M. WHICH BEARS N89°30'39"W  
1247.03' FROM THE NORTH 1/4 CORNER OF SAID SECTION 18,  
THENCE S17°09'55"E 191.23', THENCE S36°39'01"E 151.03', THENCE  
S42°34'26"E 150.97', THENCE S36°50'32"E 125.76', THENCE  
S45°48'27"E 155.06', THENCE S36°58'36"E 147.54', THENCE  
S25°09'38"E 172.73', THENCE S01°13'51"W 61.54', THENCE S51°36'10"W  
90.90', THENCE S78°23'47"W 134.81', THENCE S79°24'05"W 149.08',  
THENCE S47°15'50"W 77.72', THENCE S20°43'23"W 58.75', THENCE  
S21°17'28"W 39.99' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID  
SECTION 18 WHICH BEARS S42°11'16"W 1622.43' FROM THE NORTH  
1/4 CORNER OF SAID SECTION 18. THE SIDE LINES OF SAID  
DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO  
MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A  
GPS OBSERVATION. CONTAINS 1.176 ACRES MORE OR LESS

LINE	DIRECTION	LENGTH
L1	S55°11'53"E	40.99'
L2	S50°50'13"E	105.73'
L3	S30°00'51"E	171.47'
L4	S23°23'40"E	167.13'
L5	S22°23'47"E	169.06'
L6	S17°09'55"E	29.54'
L7	S17°09'55"E	191.23'
L8	S36°39'01"E	151.03'
L9	S42°34'26"E	150.97'
L10	S36°50'32"E	125.76'
L11	S45°48'27"E	155.06'
L12	S36°58'36"E	147.54'
L13	S25°09'38"E	172.73'
L14	S01°13'51"W	61.54'
L15	S51°36'10"W	90.90'
L16	S78°23'47"W	134.81'
L17	S79°24'05"W	149.08'
L18	S47°15'50"W	77.72'
L19	S20°43'23"W	58.75'
L20	S21°17'28"W	39.99'

END OF PROPOSED  
PIPELINE RIGHT-OF-WAY  
STA. 23+91.03  
(At Proposed El Paso Pipeline)

S00°05'25"E - 2635.36' (Meas)

S00°24'34"W - 2644.96' (Meas)



W 1/4 Cor Sec 18  
Set Marked Stone

NW 1/4

Sec. 18

NE 1/4



PROPOSED ROAD  
26-WAY  
7488.73  
of Surface Use Area)

Little Red Creek  
Cattle Co.

*Mountain West  
Ranches*

*1/4 Section Line*

**Sel Marked  
Store**

1/16 Section Line

N89°24'08"E - 2612.44' (Meas.)

Section Line

Set Worked Store

N00°04'W - 5280.00' (G.L.O.)

N00°39'35"W - 2635 75' (Meas.)

# ROAD RIGHT-OF-WAY DESCRIPTION ON DAVID A. MELESCO LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NW 1/4 NW 1/4 OF SECTION 20, T35. R6W, U.S.B.M. WHICH BEARS S34°07'17"E 764.99' FROM THE NORTHWEST CORNER OF SAID SECTION 20, THENCE N72°18.29'W 136.93', THENCE S62°22'09"W 127.86', THENCE S77°10'23"W 176.75' TO A POINT IN THE WEST LINE OF THE NW 1/4 NW 1/4 OF SAID SECTION 20 WHICH BEARS S00°02'06"W 647.91' FROM THE NORTHWEST CORNER OF SAID SECTION 20. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANITOR'S PROPERTY LINES. BASIS OF BEARINGS IS A C.P.S. OBSERVATION. CONTAINS 0.304 ACRES MORE OR LESS.

# ROAD RIGHT-OF-WAY DESCRIPTION ON UTAH STATE FISH & WILDLIFE LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE EAST LINE OF THE NE 1/4 NE 1/4 OF SECTION 19, T3S, R6W, U.S.B.&M. WHICH BEARS S00°02'06"W OF 647.91' FROM THE NORTHEAST CORNER OF SAID SECTION 19, THENCE S77°10'23"W 196.79'; THENCE S79°15'22"W 196.50'; THENCE N88°22'52"W 120.91'; THENCE N66°04'06"W 87.35'; THENCE N56°40'55"W 467.48'; THENCE N55°34'13"W 282.14'; THENCE N53°44'08"W 136.96'; THENCE N47°33'17"W 98.44'; THENCE N28°10'32"W 148.41' TO A POINT ON THE NORTH LINE OF THE NW 1/4 NE 1/4 OF SAID SECTION 19 WHICH BEARS S89°55'35"W 1445.98' FROM THE NORTHEAST CORNER OF SAID SECTION 19. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.182 ACRES MORE OR LESS.

**ROAD RIGHT-OF-WAY DESCRIPTION**  
**ON TERRY/LANETTE R. CARLSON LANDS**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE SOUTH LINE OF THE SW 1/4 SE 1/4 OF SECTION 18, T3S, R6W, U.S.B.&M. WHICH BEARS S89°55'35"W 1445.98' FROM THE SOUTHEAST CORNER OF SAID SECTION 18, THENCE N28°10'32"W 34.05'; THENCE N24°08'49"W 235.11'; THENCE N19°55'57"W 464.23'; THENCE N26°00'46"W 201.92'; THENCE N33°29'45"W 596.63'; THENCE N29°26'29"W 212.99'; THENCE N20°57'23"W 598.75'; THENCE N39°34'00"W 363.21'; THENCE N27°42'36"W 9.74' TO A POINT ON THE WEST LINE OF THE NW 1/4 SE 1/4 OF SAID SECTION 18 WHICH BEARS S80°47'52"E 2549.74' FROM THE WEST 1/4 CORNER OF SAID SECTION 18. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTER OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.747 ACRES MORE OR LESS.

# ROAD RIGHT-OF-WAY DESCRIPTION ON ATONIO A. AYALA LANDS

ROAD RIGHT-ON MOUNTAIN

A 30' WIDE RIGHT-OF-WAY DESCRIBED CENTERLINE.

1/4 OF SECTION 18, T3S, F  
S31°38'39"W 153.06' FROM  
SECTION 18, THENCE N60°3'  
59.30'; THENCE N67°50'07"  
THENCE N37°33'37"E 50.20'  
THENCE N79°30'37"E 81.41'; THENCE  
N40°32'57"E 131.12'; THENCE  
N29°33'10"W 209.27'; THENCE  
N46°13'52"W 80.22'; THENCE  
N43°37'33"W 169.91'; THENCE  
N32°17'53"W 68.99'; THENCE  
N15°56'50"W 113.86' TO A  
1/4 NW 1/4 OF SAID SECT  
1220.94' FROM THE NORTH  
THE SIDE LINES OF SAID DED  
SHORTENED OR ELONGATED  
LINES. BASIS OF BEARINGS  
3.342 ACRES MORE OR LESS

## ROAD RIGHT-ON LITTLE RED CH

A 30' WIDE RIGHT-OF-WAY DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON  
1/4 OF SECTION 7, T35, R  
1220.94' FROM THE SOUTH  
THENCE N15°56'50"W 11.98'  
N24°51'45"W 135.37', THENCE  
N19°26'47"W 49.12'; THENCE  
LOT 4 OF SAID SECTION 7  
THE SOUTHWEST CORNER OF  
SAID DESCRIBED RIGHT-OF-PA  
TO MEET THE GRANTOR'S P  
A G.P.S. OBSERVATION. CC

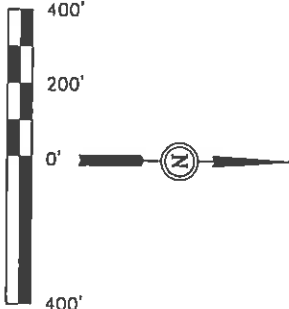
## SURFACE USE

BEGINNING AT A POINT IN U.S.B.&M. WHICH BEARS N5 SOUTHWEST CORNER OF S57°58'55"W 231.47'; THEN N57°58'55"E 320.00'; THEN S57°58'55"W 88.53' TO THE BEARINGS IS A G.P.S. OBSER- VED MORE OR LESS.

LOCATION SURFACE USE AREA  
& ROAD RIGHT-OF-WAY ON  
FREE LANDS

(For #13-7-36 BTR)

LOCATED IN  
SECTIONS 7, 18, 19 & 20, T3S, R6W,  
U.S.B.&M., DUCHESENE COUNTY, UTAH



BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LINE TABLE			
LINE	DIRECTION	LENGTH	
L1	N72°18'29"W	136.93'	
L2	S82°22'09"W	127.86'	
L3	S77°10'23"W	176.75'	
L4	S77°10'23"W	186.79'	
L5	S79°15'22"W	196.50'	
L6	N88°22'52"W	120.91'	
L7	N66°04'05"W	67.35'	
L8	N56°40'55"W	467.48'	
L9	N55°34'13"W	282.14'	
L10	N53°44'08"W	138.96'	
L11	N47°39'17"W	98.44'	
L12	N28°10'32"W	148.41'	
L13	N28°10'32"W	34.05'	
L14	N24°08'49"W	235.17'	
L15	N19°55'57"W	464.23'	
L16	N26°00'46"W	201.92'	
L17	N33°29'45"W	596.63'	
L18	N29°26'29"W	212.99'	
L19	N20°57'23"W	398.75'	
L20	N39°34'00"W	383.21'	
L21	N27°42'36"W	9.74'	

P.O.P.L. STA. 46+95.21 BEARS S80°47'52"E  
2549.74' FROM THE WEST 1/4 CORNER OF  
SECTION 18, T3S, R6W, U.S.B.&M.

P.O.P.L. STA. 51+76.94 BEARS N89°56'18"E  
2267.16' FROM THE WEST 1/4 CORNER OF  
SECTION 18, T3S, R6W, U.S.B.&M.

P.O.P.L. STA. 86+38.36 BEARS S31°38'39"W  
1530.06' FROM THE NORTH 1/4 CORNER OF  
SECTION 18, T3S, R6W, U.S.B.&M.

RIGHT-OF-WAY LENGTHS

PROPERTY OWNER	FEET	ACRES	RODS
DAVID A. MELESKO	441.54	0.304	26.76
UTAH STATE FISH & WILDLIFE	1716.98	1.182	104.06
TERRY/LANETTE R. CARLSON	2536.69	1.747	153.74
ATONIO A. AYALA	481.73	0.332	29.20
CHAD C. BYBEE	1461.43	1.006	88.57
MOUNTAIN WEST RANCHES	1948.01	1.342	118.06
LITTLE RED CREEK CATTLE CO.	702.35	0.484	42.57

ROAD RIGHT-OF-WAY DESCRIPTION  
ON MOUNTAIN WEST RANCHES LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE SOUTH LINE OF THE NE 1/4 NW 1/4 OF SECTION 18, T3S, R6W, U.S.B.&M. WHICH BEARS S31°38'39"W 1530.06' FROM THE NORTH 1/4 CORNER OF SAID SECTION 18, THENCE N60°39'22"W 48.12'; THENCE N71°04'11"W 99.30'; THENCE N67°50'07"W 104.72'; THENCE N16°44'56"E 75.55'; THENCE N37°39'37"E 50.20'; THENCE N66°31'55"E 56.22'; THENCE N79°30'37"E 81.41'; THENCE N76°55'25"E 165.42'; THENCE N40°32'57"E 131.12'; THENCE N19°34'04"W 104.15'; THENCE N29°39'10"W 209.27'; THENCE N44°01'18"W 164.87'; THENCE N46°13'22"W 80.22'; THENCE N38°32'28"W 113.34'; THENCE N43°37'39"W 109.91'; THENCE N42°38'39"W 97.31'; THENCE N32°17'13"W 66.99'; THENCE N19°04'04"W 75.00'; THENCE N15°56'50"W 113.86' TO A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 18 WHICH BEARS N89°30'39"W 1220.94' FROM THE NORTH 1/4 CORNER OF SAID SECTION 18. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.342 ACRES MORE OR LESS.

ROAD RIGHT-OF-WAY DESCRIPTION  
ON LITTLE RED CREEK CATTLE CO. LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SECTION 7, T3S, R6W, U.S.B.&M. WHICH BEARS N89°30'39"W 1220.94' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 7, THENCE N15°56'50"W 11.98'; THENCE N20°55'39"W 160.16'; THENCE N24°51'45"W 185.37'; THENCE N28°27'11"W 157.16'; THENCE N19°26'47"W 49.12'; THENCE N56°24'07"W 138.57' TO A POINT IN LOT 4 OF SAID SECTION 7 WHICH BEARS N58°40'59"E 1114.73' FROM THE SOUTHWEST CORNER OF SAID SECTION 7. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.484 ACRES MORE OR LESS.

SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN LOT 4 OF SECTION 7, T3S, R6W, U.S.B.&M. WHICH BEARS N58°40'59"E 1114.73' FROM THE SOUTHWEST CORNER OF SAID SECTION 7, THENCE S57°58'55"W 231.47'; THENCE N32°01'05"W 425.00'; THENCE N57°58'55"E 320.00'; THENCE S32°01'05"E 425.00'; THENCE S57°58'55"W 88.53' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.122 ACRES MORE OR LESS.

SECTION  
LANDS

THE FOLLOWING

OF SECTION 20,  
64.99' FROM THE  
E N72°18'29"W  
77°10'23"W 176.75'  
NW 1/4 OF SAID  
FROM THE  
SIDE LINES OF  
D OR ELONGATED  
S OF BEARINGS IS  
MORE OR LESS.

SECTION  
LANDS

THE FOLLOWING

NE 1/4 NE 1/4  
S S00°02'06"W  
SECTION 19,  
198.50'; THENCE  
; THENCE  
; THENCE  
THENCE  
LINE OF THE NW  
89°55'35"W  
SECTION 19  
BY BEING  
R'S PROPERTY  
TION. CONTAINS

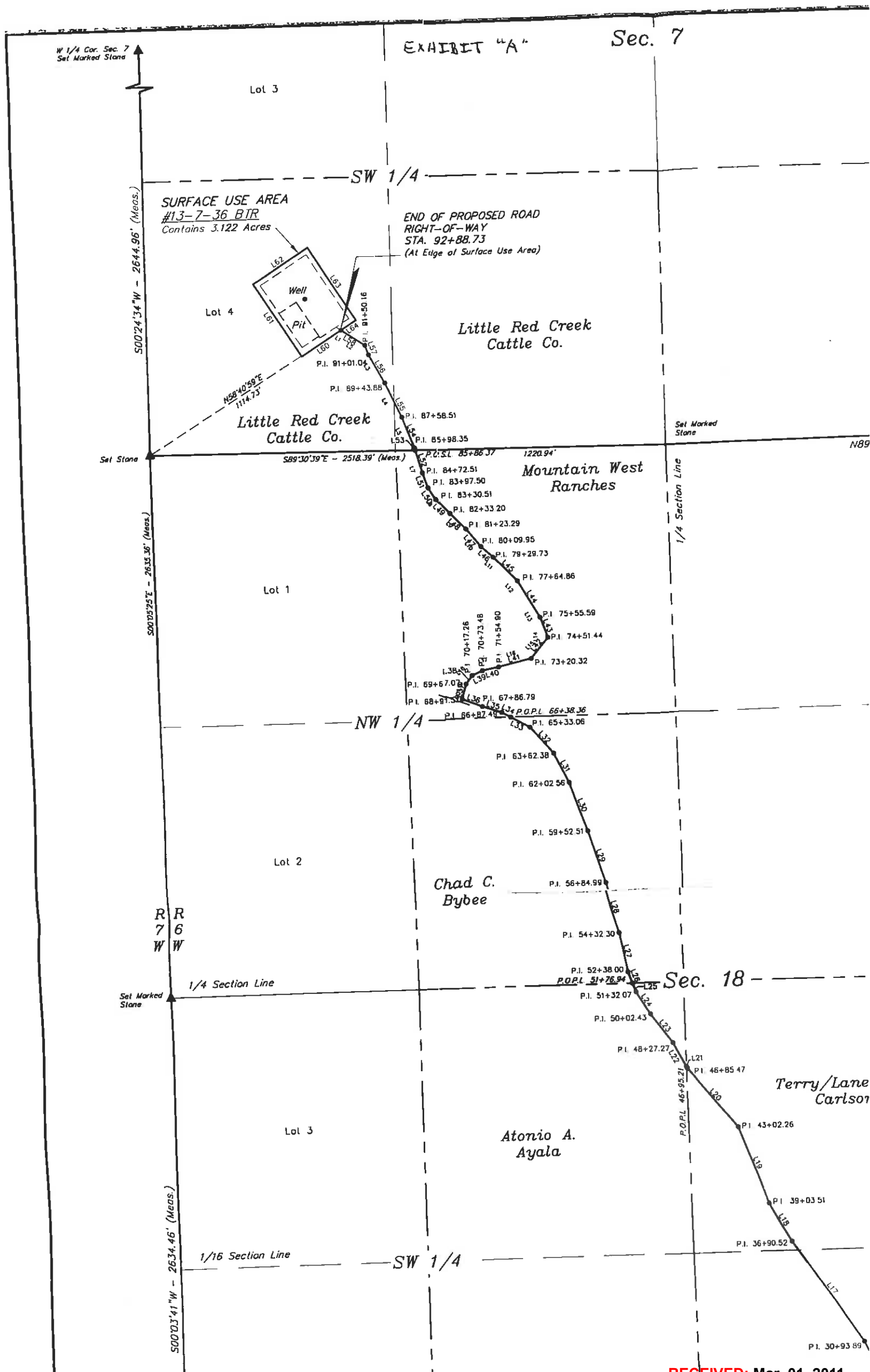
SECTION  
LANDS

THE FOLLOWING

SW 1/4 SE  
ARS  
TER OF SAID  
N24°08'49"W  
9°26'29"W  
9°34'00"W  
THE WEST LINE  
BEARS  
OF SAID  
RIGHT-OF-WAY  
GRANTOR'S  
OBSERVATION.

SECTION  
LANDS

THE FOLLOWING



**SURFACE USE PLAN**

BILL BARRETT CORPORATION

**14-7D-36 BTR Well Pad**

SWSW, 744' FSL, 776' FWL, Section 7, T3S, R6W, USB&M (surface hole)

SESW, 660' FSL, 1480' FWL, Section 7, T3S, R6W, USB&M (bottom hole)

Duchesne County, Utah

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**A surface use agreement exists with the surface use owner. The onsite for this location is pending.**

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

1. **Existing Roads:**

- a. The proposed well site is located approximately 14.7 miles northwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing Duchesne County maintained Koch Road (CR 23) would be utilized for 4.7 miles providing access to the proposed well site access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permit are required
- f. All existing roads would be maintained and kept in good repair during all phases of operation.



Bill Barrett Corporation  
Surface Use Plan  
14-7D-36 BTR  
Duchesne County, UT

2. Planned Access Road:

- a. Approximately 0.5 miles of existing two-track access road would be upgraded and approximately 715-ft of that existing two-track would be re-routed around the eastern side of the proposed pad (see Topographic Map B).
- b. The road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed because the access road is short and adequate site distance exists in all directions.
- i. No culverts or low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.

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Surface Use Plan  
14-7D-36 BTR  
Duchesne County, UT

- j. No gates or cattle guards are anticipated at this time.
  - k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
  - l. All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007.
  - m. The operator would be responsible for all maintenance needs of the new access road.
3. Location of Existing Wells (see One-Mile Radius Map):
- a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:
    - i. water wells none
    - ii. injection wells none
    - iii. disposal wells one
    - iv. drilling wells none
    - v. temp shut-in wells none
    - vi. producing wells none
    - vii. abandoned wells six
4. Location of Production Facilities
- a. Surface facilities would consist of a wellhead, separator, gas meter, (1) 500 gal methanol tank, (1) 500 gal glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit with natural gas fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
  - b. Most wells would be fitted with a pump jack to assist liquid production if liquid volumes and/or low formation pressures require it. Plunger lift systems do not require any outside source of energy. The prime mover for pump jacks would be small (75 horsepower or less), natural gas-fired internal combustion engines.

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Surface Use Plan  
14-7D-36 BTR  
Duchesne County, UT

- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 2,420 feet of pipeline corridor (see Topographic Map D) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) is proposed. Pipelines would be constructed of steel, polyethylene or fiberglass. and would connect to the existing pipeline servicing nearby El Paso wells. The pipeline crosses entirely private surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- i. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective color, such as Juniper Green, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

Bill Barrett Corporation  
 Surface Use Plan  
 14-7D-36 BTR  
 Duchesne County, UT

- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- l. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water Supply:

- a. Water for the drilling and completion would be trucked from any of the following locations:

<b>Water Right No. and Application or Change No.</b>	<b>Applicant</b>	<b>Point of Diversion</b>	<b>Source</b>
43-180	Duchesne City Water Service District	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	Strawberry River	Strawberry River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah – Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations.

6. Source of Construction Material:

- a. The use of materials would conform to 43 CFR 3610.2-3.
- b. No construction materials would be removed from the lease or EDA area.
- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

Bill Barrett Corporation  
 Surface Use Plan  
 14-7D-36 BTR  
 Duchesne County, UT

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

<b>Disposal Facilities</b>
1. RNI Industries, Inc. – Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
2. Pro Water LLC – Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
3. RN Industries, Inc. – Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
4. Water Disposal, Inc. – Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W
5. Unified Water Pits – Sec. 31, T2S-R4W
6. Iowa Tank Line Pits – 8500 BLM Fence Road, Pleasant Valley

- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.

Bill Barrett Corporation  
 Surface Use Plan  
 14-7D-36 BTR  
 Duchesne County, UT

- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO<sub>2</sub> gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- l. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.
- m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.



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Duchesne County, UT

8. Ancillary Facilities:

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.

9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with Ute Tribe specifications.
- d. The pad has been staked at its maximum size of 375 feet x 270 feet with an inboard reserve pit size of 100 feet x 200 feet x 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.

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Duchesne County, UT

- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan will be submitted within 90 days of location construction.
- b. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the Ute Tribe specified seed mix.
- f. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a depth optimum to maintain topsoil viability, seeded with the Ute Tribe prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

11. Surface and Mineral Ownership:

- a. Surface ownership –
  - i. Well site, access and pipeline corridor segment: Little Red Creek Cattle Company, LLC, PO Box 332, Tabiona, UT 84072, 801-380-1055

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Surface Use Plan  
14-7D-36 BTR  
Duchesne County, UT

- ii. Access and pipeline corridor segment: Allen Kent Anderson, 1485 West 600 South, Salt Lake City, UT, 801-910-4924 and Murland R. Packer, 5947 South 3650 West, Roy, UT, 84067, 801-425-6490.
- b. Mineral ownership – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

Bill Barrett Corporation  
Surface Use Plan  
14-7D-36 BTR  
Duchesne County, UT

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as MOAC Report No. 09-226, dated April 28, 2010.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
  - No dogs or firearms within the Project Area.
  - No littering within the Project Area.
  - Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders.
  - Campfires or uncontained fires of any kind would be prohibited.
  - Portable generators used in the Project Area would have spark arrestors.
- d. Disturbance estimates:

**Approximate Acreage Disturbances**

Well Pad		3.12	acres
Access	2640 feet	1.81	acres
Pipeline	2420 feet	1.67	acres

**Total          6.6    acres**

OPERATOR CERTIFICATION

## Certification:

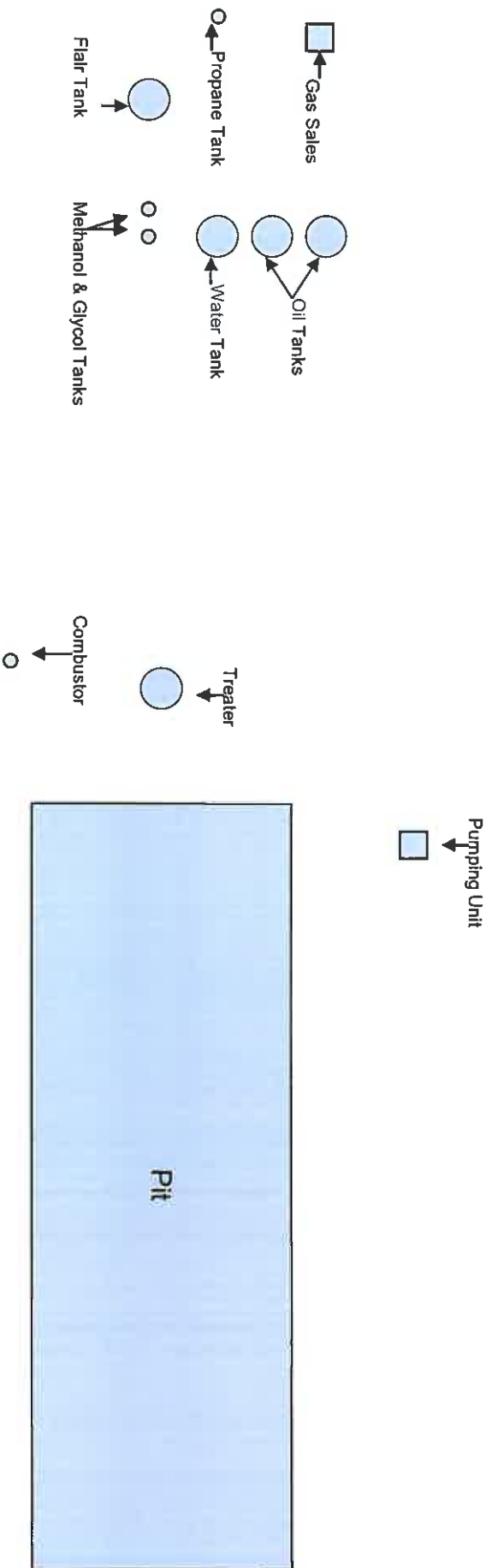
I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

Executed this 1 day of March 2011  
Name: Elaine Winick  
Position Title: Senior Permit Analyst  
Address: 1099 18<sup>th</sup> Street, Suite 2300, Denver, CO 80202  
Telephone: 303-312-8168  
E-mail: ewinick@billbarrettcorp.com  
Field Representative Kary Eldredge / Bill Barrett Corporation  
Address: 1820 W. Highway 40, Roosevelt, UT 84066  
Telephone: 435-725-3515 (office); 435-724-6789 (mobile)  
E-mail: keldredge@billbarrettcorp.com

Elaine Winick  
Elaine Winick, Senior Permit Analyst

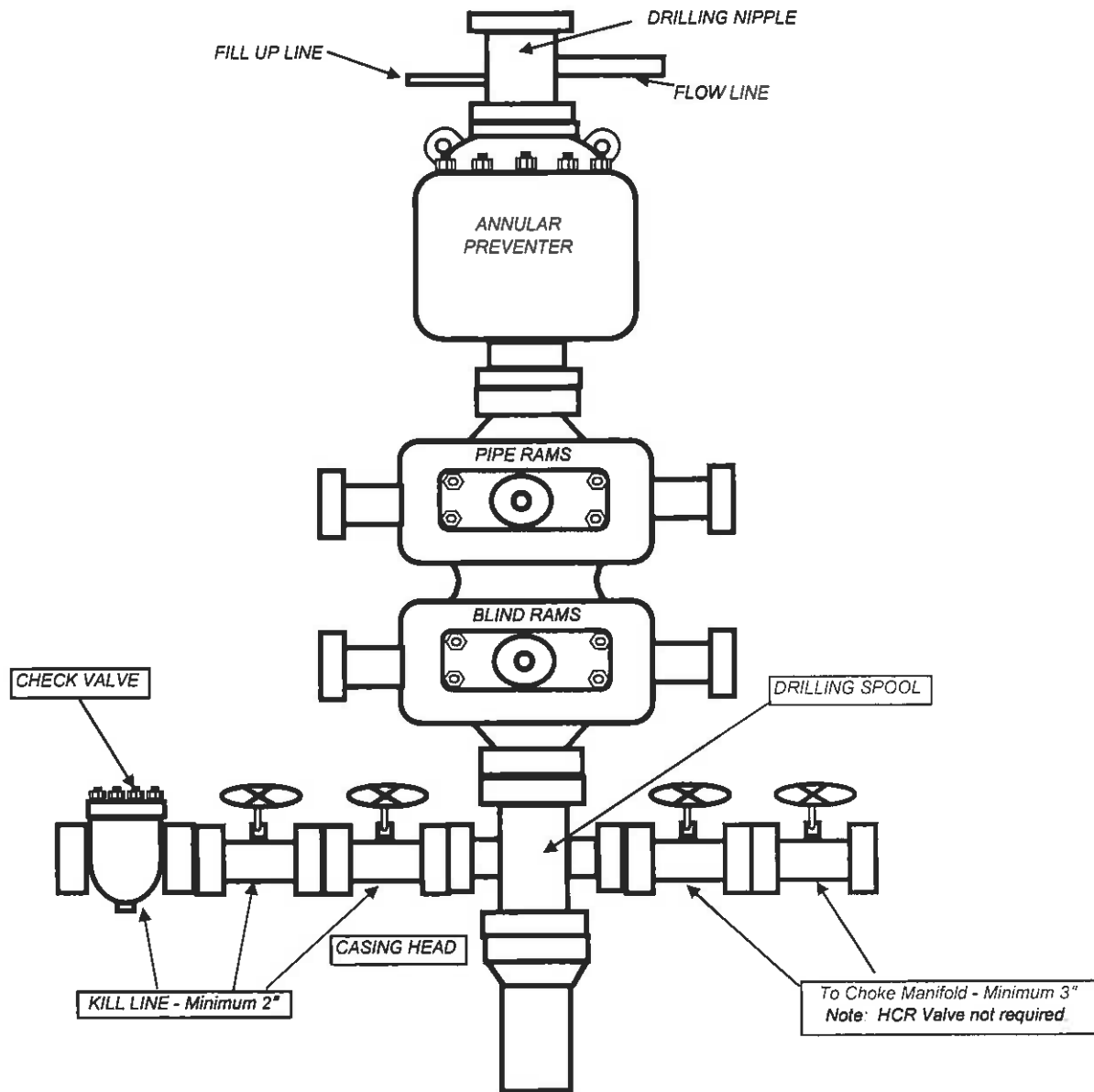


14-7D-36 BTR Facility Diagram



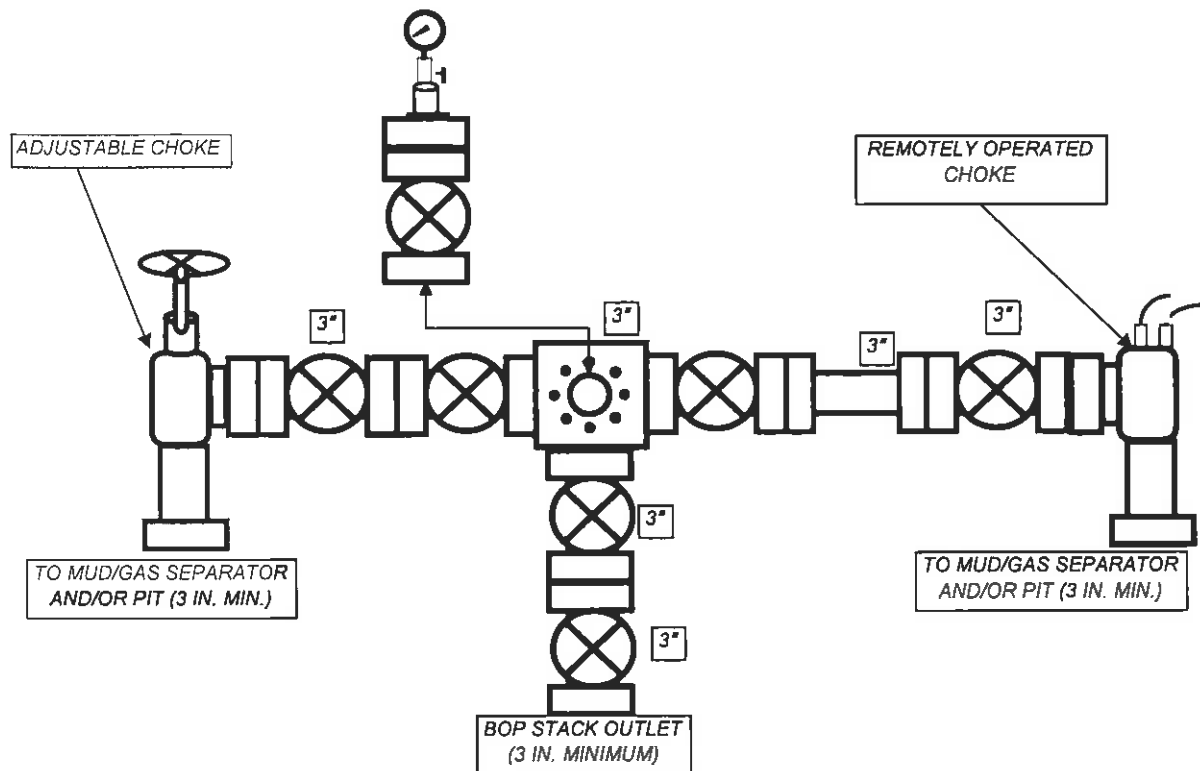
## BILL BARRETT CORPORATION

### TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



# BILL BARRETT CORPORATION

## TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





March 1, 2011

Ms. Diana Mason – Petroleum Technician  
**STATE OF UTAH DIVISION OF OIL, GAS AND MINING**  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: **Exception Location - #14-7D-36 BTR – Blacktail Ridge Area**  
Surface Location: 744' FSL, 776' FWL, SWSW, Section 7-T3S-R6W  
Bottom Location: 660' FSL, 1,480' FWL, SESW, Section 7-T3S-R6W  
Duchesne County, Utah

Dear Ms. Mason,

Bill Barrett Corporation ("BBC") hereby submits an exception location letter in accordance with Oil & Gas Conservation Rules R649-3-3, requesting an exception well location, supported by the following information:

- The location is within our Blacktail Ridge Area.
- The exception location is due to topography requirements and to minimize surface disturbance.
- BBC certifies that it is the working interest owner along with Ute Energy, LLC (who also consent to this exception location request), and together we own 100% of the working interest within 460 feet of the proposed well location.
- Our rights are owned under an Exploration and Development Agreement with the Ute Indian Tribe and Ute Distribution Corporation which provides for the drilling of exploratory wells. This agreement provides that we consult with these owners regarding the drilling of this well.
- BBC will be drilling the 14-7D-36 BTR well location. Once drilled BBC and Ute Energy LLC will earn a Tribal BIA Lease covering 624.80 acres.

Based on the information provided, BBC requests the Division grant this exception to the locating and siting requirements of R649-3-2. Should you have any questions or need further information, please contact me at 303-312-8544.

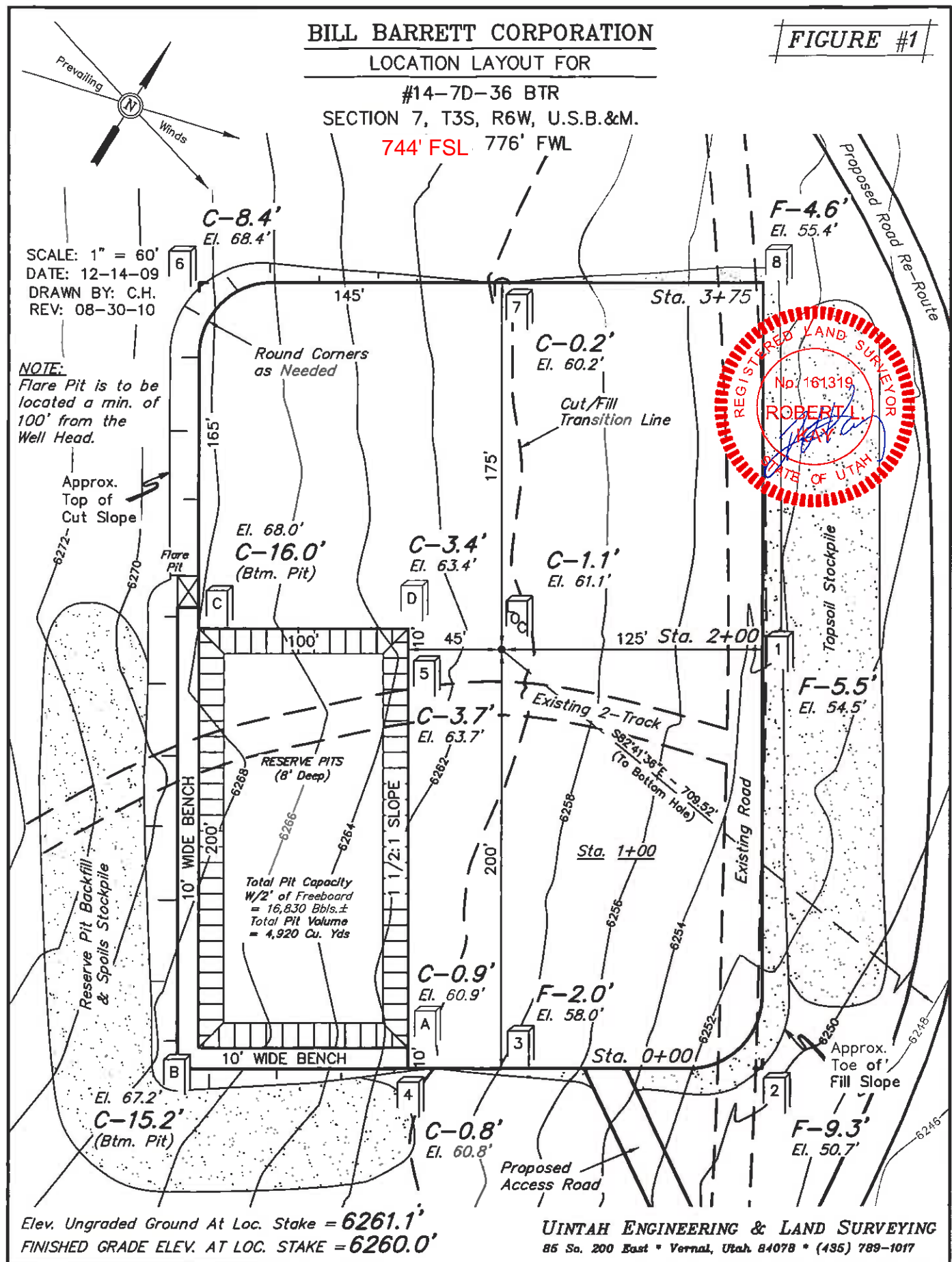
Sincerely,

*David Watts by EIC*

David Watts  
Landman  
[dwards@billbarrettcorp.com](mailto:dwards@billbarrettcorp.com)

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

**RECEIVED: Mar. 01, 2011**





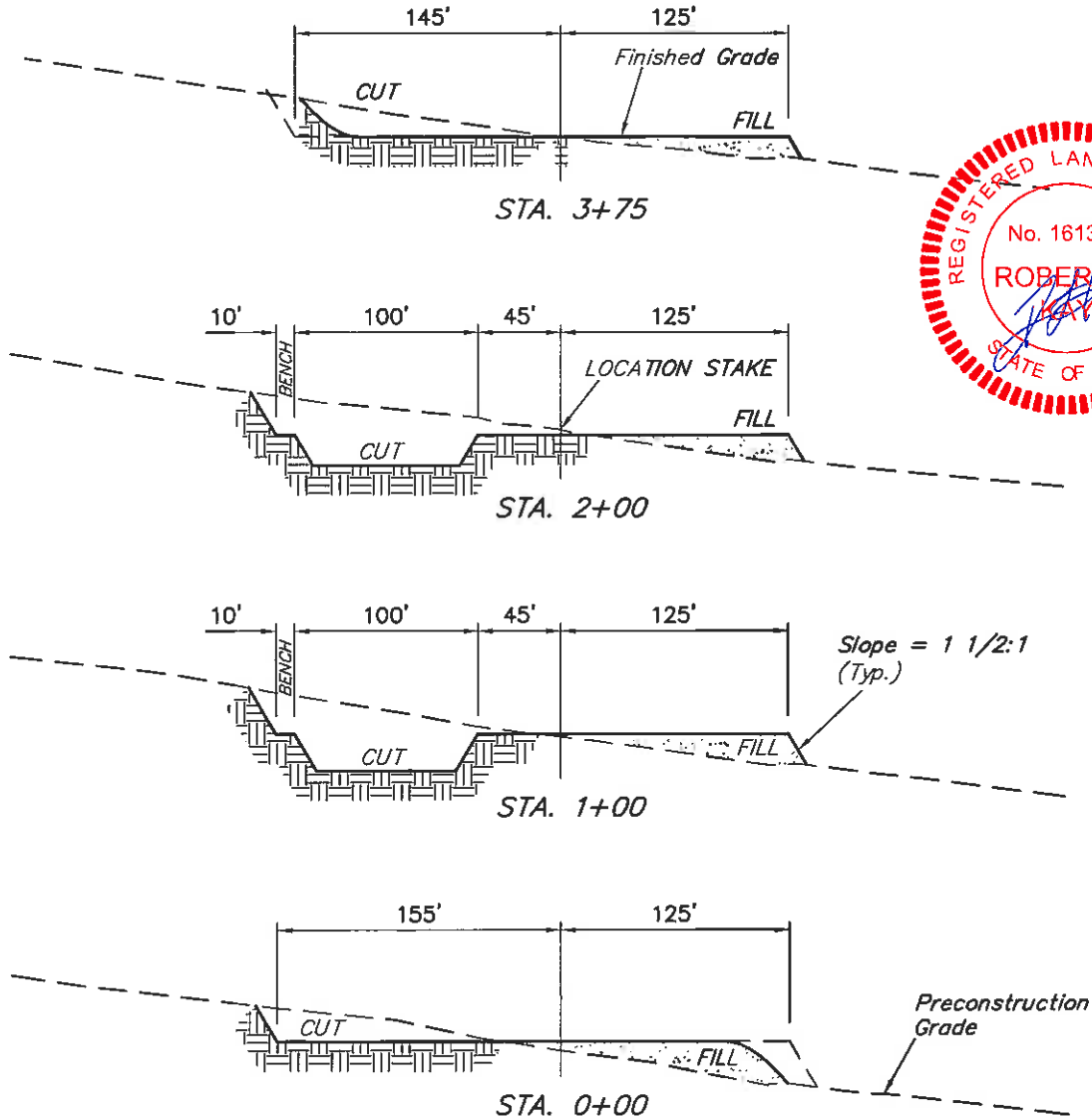
**BILL BARRETT CORPORATION****TYPICAL CROSS SECTION FOR**

#14-7D-36 BTR

SECTION 7, T3S, R6W, U.S.B.&amp;M.

**744' FSL 776' FWL****FIGURE #2**

1" = 40'  
X-Section  
Scale  
1" = 100'  
DATE: 12-14-09  
DRAWN BY: C.H.  
REV: 08-30-10

**NOTE:**

Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area.

**\* NOTE:**

FILL QUANTITY INCLUDES  
5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(12") Topsoil Stripping = 4,420 Cu. Yds.  
Remaining Location = 12,660 Cu. Yds.  
**TOTAL CUT = 17,080 CU.YDS.**  
**FILL = 8,940 CU.YDS.**

EXCESS MATERIAL = 8,140 Cu. Yds.  
Topsoil & Pit Backfill = 6,880 Cu. Yds.  
(1/2 Pit Vol.)

EXCESS UNBALANCE = 1,260 Cu. Yds.  
(After Interim Rehabilitation)

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**BILL BARRETT CORPORATION**

## TYPICAL RIG LAYOUT FOR

#14-7D-36 BTR

SECTION 7, T3S, R6W, U.S.B.&amp;M.

744' FSL 776' FWL

**FIGURE #3**

SCALE: 1" = 60'

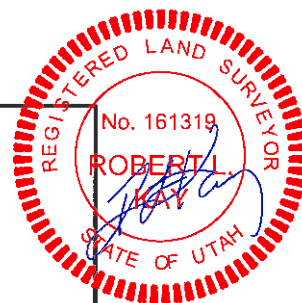
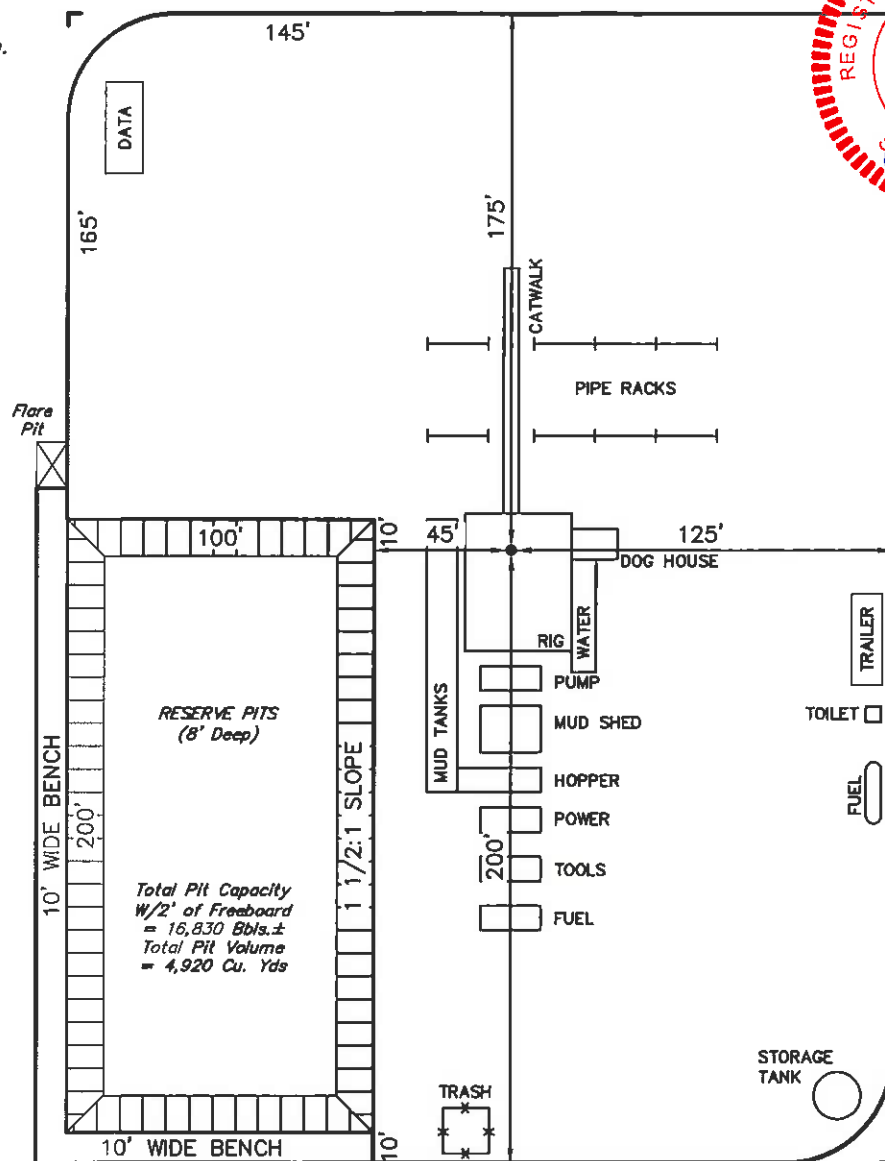
DATE: 12-14-09

DRAWN BY: C.H.

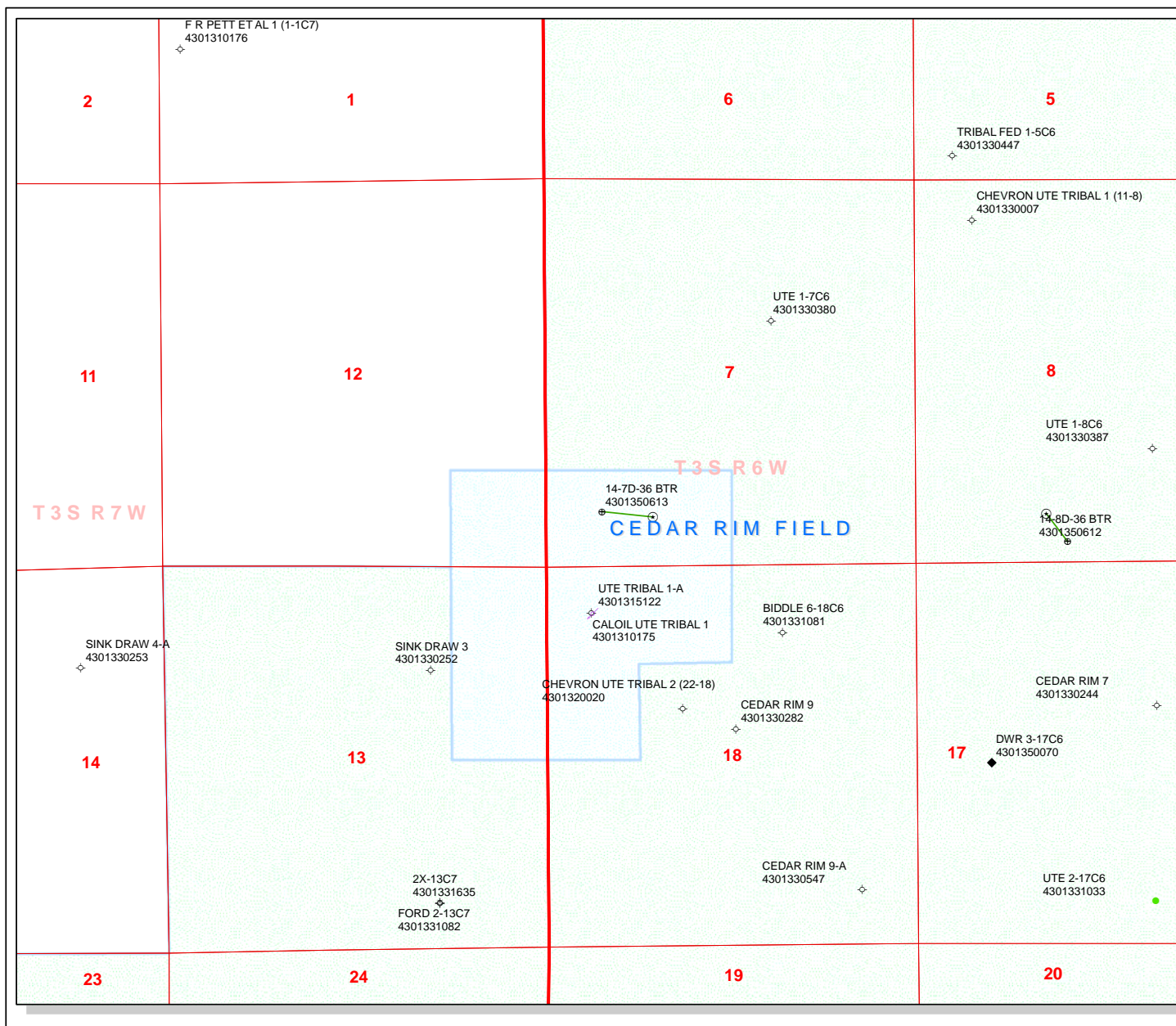
REV: 08-30-10

**NOTE:**

Flare Pit is to be located a min. of 100' from the Well Head.

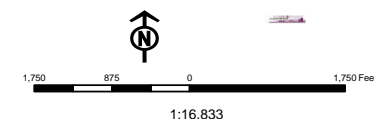
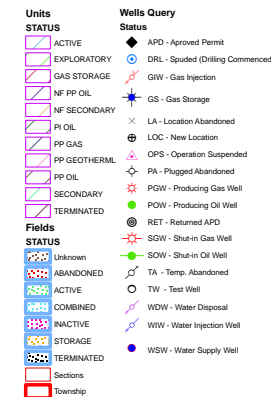
**UINTAH ENGINEERING & LAND SURVEYING**

85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



**API Number: 4301350613**  
**Well Name: 14-7D-36 BTR**  
**Township T0.3 . Range R0.6 . Section 07**  
**Meridian: UBM**  
**Operator: BILL BARRETT CORP**

Map Prepared:  
 Map Produced by Diana Mason



# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

<b>Operator</b>	BILL BARRETT CORP				
<b>Well Name</b>	14-7D-36 BTR				
<b>API Number</b>	43013506130000	<b>APD No</b>	3498	<b>Field/Unit</b>	CEDAR RIM
<b>Location: 1/4,1/4</b>	SWSW	<b>Sec</b>	7	<b>Tw</b>	3.0S
		<b>Rng</b>	6.0W	744	FSL 776 FWL
<b>GPS Coord (UTM)</b>	533052	4453030	<b>Surface Owner</b>	Gary Stringham/Little Red Creek Cattle Company, LLC	

### **Participants**

James Hereford (BLM), Kary Eldredge (Bill Barrett), Don Hamilton (Buys and Associates), Trevor Anderson (UELS), Matt Serfustini (Environmental Industrial Services, Richard Powell (DOGM), Gary Stringham (land owner)

### **Regional/Local Setting & Topography**

This location sits a gradual northeast facing slope. The proposed location is only gently sloped and crosses no drainages. Above location to the southwest is a low lying ridge covered with Pinion and Juniper with exposed rock outcroppings. Below the location to the northeast approximately 0.2 miles is Rabbit Gulch, the primary drainage for this region. Rabbit Gulch flows southeast where it drains into Starvation Reservoir approximately 5 to 6 miles away. Duchesne, UT is approximately 13 miles to the south east.

### **Surface Use Plan**

#### **Current Surface Use**

Grazing  
Deer Winter Range  
Wildlife Habitat

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0.5	<b>Width</b> 270 <b>Length</b> 375	Onsite	UNTA

#### **Ancillary Facilities Y**

Trailers will be parked on location to provide temporary housing for personel employed in the drilling operations.

**Waste Management Plan Adequate?** Y

### **Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Deer, elk, cougars, coyote, raptors, rodents, rabbits, song birds  
Scattered grasses, prickly pear, sage brush, rabbit brush

#### **Soil Type and Characteristics**

Sandy clay loam, moderate permeability

**Erosion Issues** N

**Sedimentation Issues** N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N

**Reserve Pit****Site-Specific Factors****Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	10 to 20	5

**Affected Populations**

<b>Presence Nearby Utility Conduits</b>	Not Present	0
<b>Final Score</b>		20

1 Sensitivity Level

**Characteristics / Requirements**

The reserve pit is to be 100ft wide by 200ft long and 8ft deep with a volume of 16,830 bbls. The reserve will be placed in cut and there do not appear to be any stability issues. According to Kary Eldredge Bill Barrett will use a 16 mil liner along with a felt subliner.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y

**Other Observations / Comments**

New well access road will following an existing well used two track road. The existing road will be rerouted around the northeast side of the location.

Richard Powell  
**Evaluator**

3/22/2011  
**Date / Time**



# Application for Permit to Drill

## Statement of Basis

4/14/2011

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
3498	43013506130000	LOCKED	OW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>	Gary Stringham/Little Red Creek Cattle Company, LLC	
<b>Well Name</b>	14-7D-36 BTR		<b>Unit</b>		
<b>Field</b>	CEDAR RIM		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWSW 7 3S 6W U 744 FSL 776 FWL GPS Coord (UTM) 533057E 4453026N				

**Geologic Statement of Basis**

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill  
**APD Evaluator**

4/14/2011  
**Date / Time**

**Surface Statement of Basis**

The surface owner of this location is Gary Strigham / Little Red Creek Cattle Company. Mr. Stringham expressed no concerns with this location in particular but expressed his desire that Bill Barrett and other oil companies operating in the area would develop water for wild life use in the region. Mr. Stringham informed us that he had lost approximately 300 tons of hay to elk during the winter and feels the oil field development is partially responsible by chasing wildlife off from winter range.

James Hereford of the BLM stated no concerns with drilling at this location. It appears to be a good site for a well and the layout plan appears to be well suited for this site.

Richard Powell  
**Onsite Evaluator**

3/22/2011  
**Date / Time**

**Conditions of Approval / Application for Permit to Drill**

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 3/1/2011**API NO. ASSIGNED:** 43013506130000**WELL NAME:** 14-7D-36 BTR**OPERATOR:** BILL BARRETT CORP (N2165)**PHONE NUMBER:** 303 293-9100**CONTACT:** Elaine Winick**PROPOSED LOCATION:** SWSW 07 030S 060W**Permit Tech Review:** ☒**SURFACE:** 0744 FSL 0776 FWL**Engineering Review:** ☐**BOTTOM:** 0660 FSL 1480 FWL**Geology Review:** ☒**COUNTY:** DUCHESNE**LATITUDE:** 40.22891**LONGITUDE:** -110.61145**UTM SURF EASTINGS:** 533057.00**NORTHINGS:** 4453026.00**FIELD NAME:** CEDAR RIM**LEASE TYPE:** 2 - Indian**LEASE NUMBER:** 2OG0005608**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER-WASATCH**SURFACE OWNER:** 4 - Fee**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**☒ **PLAT**☒ **Bond:** INDIAN - LPM8874725☐ **Potash**☐ **Oil Shale 190-5**☐ **Oil Shale 190-3**☐ **Oil Shale 190-13**☒ **Water Permit:** Duchesne City Culinary Water Dock☐ **RDCC Review:**☒ **Fee Surface Agreement**☐ **Intent to Commingle****Commingle Approved****LOCATION AND SITING:**☐ **R649-2-3.****Unit:**☐ **R649-3-2. General**☐ **R649-3-3. Exception**☒ **Drilling Unit****Board Cause No:** Cause 139-84**Effective Date:** 12/31/2008**Siting:** 660' Fr Drl U Bdry & 1320' Other Wells☒ **R649-3-11. Directional Drill****Comments:** Presite Completed**Stipulations:**  
4 - Federal Approval - dmason  
5 - Statement of Basis - bhll  
15 - Directional - dmason



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** 14-7D-36 BTR  
**API Well Number:** 43013506130000  
**Lease Number:** 2OG0005608  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 4/14/2011

**Issued to:**

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT



<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> 14-7D-36 BTR				
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> CEDAR RIM				
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>				
<b>6. NAME OF OPERATOR</b> BILL BARRETT CORP						<b>7. OPERATOR PHONE</b> 303 312-8164				
<b>8. ADDRESS OF OPERATOR</b> 1099 18th Street Ste 2300, Denver, CO, 80202						<b>9. OPERATOR E-MAIL</b> dspencer@billbarrettcorp.com				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> 20G0005608			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> Gary Stringham/Little Red Creek Cattle Company, LLC						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b> 801-380-1055				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> PO Box 332, ,						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
LOCATION AT SURFACE		744 FSL 776 FWL		SWSW	7	3.0 S	6.0 W	U		
Top of Uppermost Producing Zone		678 FSL 1311 FWL		SWSW	7	3.0 S	6.0 W	U		
At Total Depth		660 FSL 1480 FWL		SESW	7	3.0 S	6.0 W	U		
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 2476			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 640				
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 2380			<b>26. PROPOSED DEPTH</b> MD: 11286 TVD: 11225				
<b>27. ELEVATION - GROUND LEVEL</b> 6261			<b>28. BOND NUMBER</b> LPM8874725			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> Duchesne City Culinary Water Dock				
<b>Hole, Casing, and Cement Information</b>										
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
<b>Cond</b>	26	16	0 - 80	65.0	Unknown	8.8	Unknown	0	0.0	0.0
<b>Surf</b>	14.75	10.75	0 - 3500	45.5	J-55 LT&C	8.8	Halliburton Light , Type Unknown	940	3.16	11.0
							Halliburton Premium , Type Unknown	360	1.36	14.8
<b>Prod</b>	9.875	5.5	0 - 11286	17.0	P-110 LT&C	9.7	Unknown	750	2.31	11.0
							Unknown	1020	1.42	13.5
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
<b>NAME</b> Elaine Winick			<b>TITLE</b> Sr. Permit Analyst			<b>PHONE</b> 303 293-9100				
<b>SIGNATURE</b>			<b>DATE</b> 03/01/2011			<b>EMAIL</b> ewinick@billbarrettcorp.com				
<b>API NUMBER ASSIGNED</b> 43013506130000			<b>APPROVAL</b> <div style="text-align: center;">             Permit Manager         </div>							



**BILL BARRETT CORPORATION**  
**DRILLING PLAN**  
02/08/2011

**14-7D-36 BTR Well Pad**

SWSW, 744' FSL, 776' FWL, Section 7, T3S, R6W, USB&M (surface hole)

SESW, 660' FSL, 1480' FWL, Section 7, T3S, R6W, USB&M (bottom hole)

Duchesne County, UT

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth – TVD</u>
Lower Green River	6705'*	6660'*
Douglas Creek	7513'	7455'
Black Shale	8016'	7955'
Castle Peak	8296'	8235'
Wasatch	9096'*	9035'*
TD	11,286'	11,225'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

**3. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 3500'	No pressure control required
3500' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
(FROM)	(TO)						
26"	Surface	80'	16"	65#			
14 3/4"	surface	3500'	10-3/4"	45.5#	J or K 55	BT&C	New
9-7/8"	surface	TD	5 1/2"	17#	P-110	LT&C	New
& 8-3/4"							
<b>NOTE: If necessary due to lost circulation, BBC would like to request the option to set 7-5/8", 33.70# P-110 LT&amp;C to a depth of 6000', then drill a 6-1/2" hole to TD and run 5-1/2" casing as a 2000' liner (200' liner lap).</b>							

Bill Barrett Corporation  
Drilling Program  
# 14-7D-36 BTR  
Duchesne County, Utah

## 5. Cementing Program

<u>Casing</u>	<u>Cement</u>
16" Conductor Casing	Grout
14-3/4" hole for 10-3/4" Surface Casing	Lead with approximately 940 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. Tail with approximately 360 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx). Calculated hole volume with 75% excess.
9-7/8 hole for 5 1/2" Production Casing May reduce hole size to 8-3/4" at 6000' if minimal hole problems.	Lead with approximately 750 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). Tail with approximately 1020 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Planned TOC 3000'
<p><b>NOTE: If 7-5/8" casing is necessary, cement with Lead with approximately 700 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft<sup>3</sup>/sx). Tail with approximately 240 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft<sup>3</sup>/sx). Planned TOC surface. We will perform a FIT to 10.2 ppg after drilling 20' of new hole.</b></p> <p><b>The 5-1/2" liner would be cemented with 300 sx of Class G 50/50 Poz w/ 2% gel (14.2 ppg) with additives from TD to 200' above TOL.</b></p>	

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 3500'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
3500' – TD	8.6 – 9.7	42-52	20 cc or less	DAP Polymer Fluid System
<p>Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.</p>				

## 7. Testing, Logging and Core Programs

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.
<p><b>NOTE: If BBC pursues the "Alternate" program, a suite of the above logs will be run on both the intermediate and production hole sections.</b></p>	

Bill Barrett Corporation  
Drilling Program  
# 14-7D-36 BTR  
Duchesne County, Utah

**8. Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 5604 psi\* and maximum anticipated surface pressure equals approximately 3134 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A - (0.22 x TD)

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**11. Drilling Schedule**

Location Construction: Approximately 07/01/2011  
Spud: Approximately 7/15/2011  
Duration: 15 days drilling time  
45 days completion time

**PRESSURE CONTROL EQUIPMENT** – Schematic Attached

**A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer.** The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes with one (1) remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Pressure gauge on choke manifold.
13. Fill-up line above the uppermost preventer.

**B. Pressure Rating:** 5,000 psi

**C. Testing Procedure:**

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

**D. Choke Manifold Equipment:**

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

**E. Accumulator:**

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

**F. Miscellaneous Information:**

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.





# Bill Barrett Corporation

## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

AS OF: 2/8/2011

**Well Name:** 14-7D-36 BTR

**Surface Hole Data:**

Total Depth:	3,500'
Top of Cement:	0'
OD of Hole:	14.750"
OD of Casing:	10.750"

**Calculated Data:**

Lead Volume:	2920.7	ft <sup>3</sup>
Lead Fill:	3,000'	
Tail Volume:	486.8	ft <sup>3</sup>
Tail Fill:	500'	

**Cement Data:**

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

**Calculated # of Sacks:**

# SK's Lead:	940
--------------	-----

Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	3,000'	

# SK's Tail:	360
--------------	-----

**Production Hole Data:**

Total Depth:	11,286'
Top of Cement:	3,000'
Top of Tail:	7,515'
OD of Hole:	8.750"
OD of Casing:	5.500"

**Calculated Data:**

Lead Volume:	1710.7	ft <sup>3</sup>
Lead Fill:	4,515'	
Tail Volume:	1428.9	ft <sup>3</sup>
Tail Fill:	3,771'	

**Cement Data:**

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

**Calculated # of Sacks:**

# SK's Lead:	750
# SK's Tail:	1020

<b>14-7D-36 BTR Proposed Cementing Program</b>
--

<u>Job Recommendation</u>	<u>Surface Casing</u>		
<b>Lead Cement - (3000' - 0')</b>			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	3,000'	
	Volume:	520.16	bbl
	<b>Proposed Sacks:</b>	<b>940</b>	<b>sks</b>
<b>Tail Cement - (TD - 3000')</b>			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft <sup>3</sup> /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	3,000'	
	Calculated Fill:	500'	
	Volume:	86.69	bbl
	<b>Proposed Sacks:</b>	<b>360</b>	<b>sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>		
<b>Lead Cement - (7515' - 3000')</b>			
Tuned Light™ System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft³/sk
	Total Mixing Fluid:	10.65	Gal/sk
	Top of Fluid:	3,000'	
	Calculated Fill:	4,515'	
	Volume:	304.66	bbl
	<b>Proposed Sacks:</b>	<b>750</b>	<b>sks</b>
<b>Tail Cement - (11286' - 7515')</b>			
Econocem™ System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft³/sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:	6.61	Gal/sk
	Top of Fluid:	7,515'	
	Calculated Fill:	3,771'	
	Volume:	254.48	bbl
	<b>Proposed Sacks:</b>	<b>1020</b>	<b>sks</b>

# T3S, R6W, U.S.B.&M.

## BILL BARRETT CORPORATION

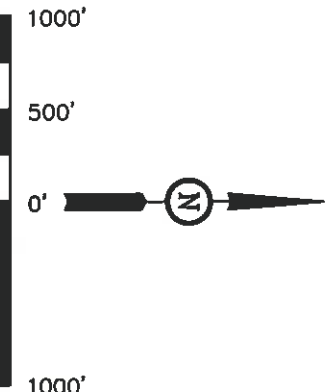
Well location, #14-7D-36 BTR, located as shown in Lot 4 of Section 7, T3S, R6W, U.S.B.&M., Duchesne County, Utah.

### BASIS OF ELEVATION

SPOT ELEVATION AT A ROAD INTERSECTION LOCATED IN THE NW 1/4 OF SECTION 36, T3S, R6W, U.S.B.&M., TAKEN FROM THE RABBIT GULCH QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5904 FEET.

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT THE SAME ACCURATELY REPRESENTS THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

REVISED: 08-30-10

UNTIAH ENGINEERING & LAND SURVEYING  
86 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'  
DATE SURVEYED: 10-20-09 DATE DRAWN: 12-14-09

PARTY D.R. Z.L. C.H. REFERENCES G.L.O. PLAT

WEATHER COLD FILE BILL BARRETT CORPORATION

R/R  
7/6  
W/W

S89°54'E - 5148.00' (G.L.O.)

NORTH - 2640.00' (G.L.O.)

Set Marked Stone

500°24'34"W - 2644.96' (Meas.)

Set Stone

Lot 4  
#14-7D-36 BTR  
Elev. Ungraded Ground = 6261'  
Bottom Hole  
776'  
744'  
1480'  
660'

S89°30'39"E - 2518.39' (Meas.)

Set Marked Stone

N89°24'08"E - 2612.44' (Meas.)

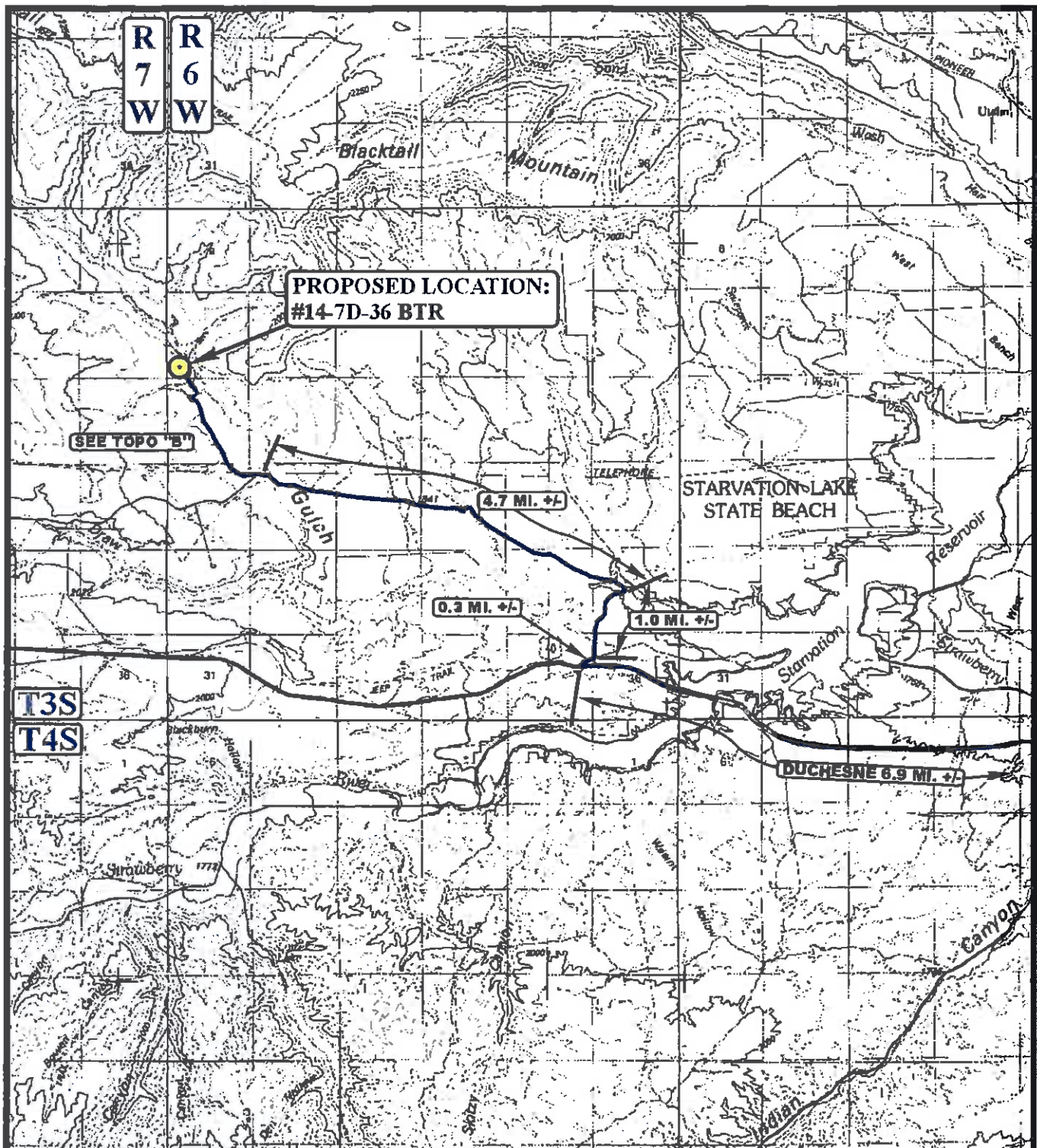
N00°04'W - 5280.00' (G.L.O.)

LINE TABLE		
LINE	BEARING	LENGTH
L1	S82°41'36"E	709.52'

### LEGEND:

- 90° SYMBOL
- PROPOSED WELL HEAD.
- SECTION CORNERS LOCATED

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°13'43.10" (40.228639)	LATITUDE = 40°13'43.99" (40.228686)	LATITUDE = 40°13'43.99" (40.228686)	LATITUDE = 40°13'44.15" (40.228931)
LONGITUDE = 110°36'35.03" (110.609731)	LONGITUDE = 110°36'44.11" (110.612253)	LONGITUDE = 110°36'44.11" (110.612253)	LONGITUDE = 110°36'41.54" (110.611539)
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°13'43.28" (40.228683)	LATITUDE = 40°13'44.15" (40.228931)	LATITUDE = 40°13'44.15" (40.228931)	LATITUDE = 40°13'44.15" (40.228931)
LONGITUDE = 110°36'32.46" (110.609017)	LONGITUDE = 110°36'41.54" (110.611539)	LONGITUDE = 110°36'41.54" (110.611539)	LONGITUDE = 110°36'41.54" (110.611539)



**LEGEND:**

PROPOSED LOCATION



**BILL BARRETT CORPORATION**

**#14-7D-36 BTR**  
**SECTION 7, T3S, R6W, U.S.B.&M.**  
**744' FSL 776' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

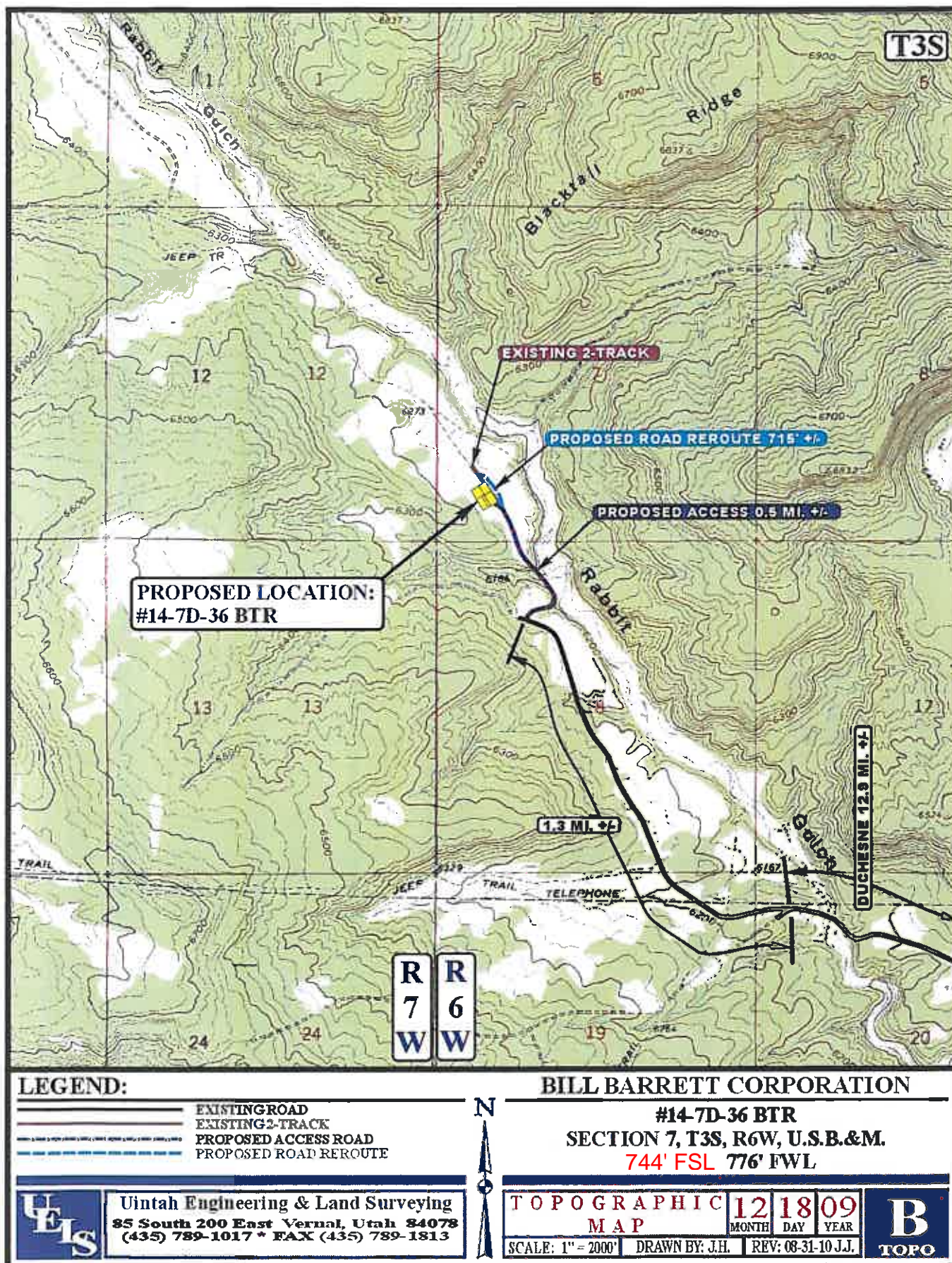
**TOPOGRAPHIC  
MAP**

**12 18 09**  
 MONTH DAY YEAR

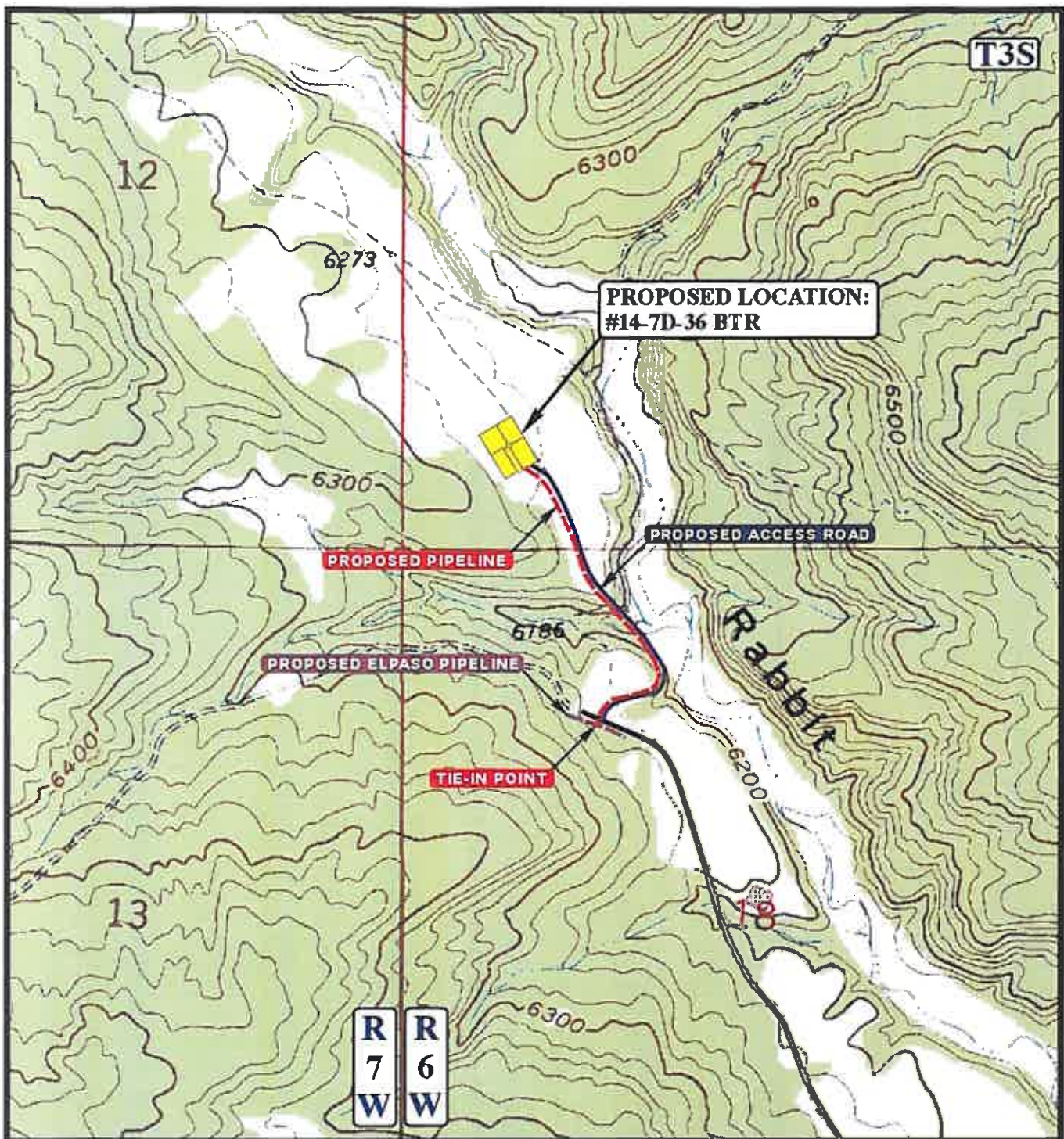
**SCALE: 1:100,000 DRAWN BY: J.H. REV: 08-31-10 J.J.**











**APPROXIMATE TOTAL PIPELINE DISTANCE = 2,420' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- PROPOSED PIPELINE
- - - - - PROPOSED PIPELINE (SERVICING OTHER WELLS)



**BILL BARRETT CORPORATION**

**#14-7D-36 BTR**  
**SECTION 7, T3S, R6W, U.S.B.&M.**  
**744' FSL 776' FWL**



**Uintah Engineering & Land Surveying**  
**85 South 200 East Vernal, Utah 84078**  
**(435) 789-1017 \* FAX (435) 789-1813**

**TOPOGRAPHIC**  
**MAP**

**12 18 09**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.H. REV: 08-31-10 J.J.

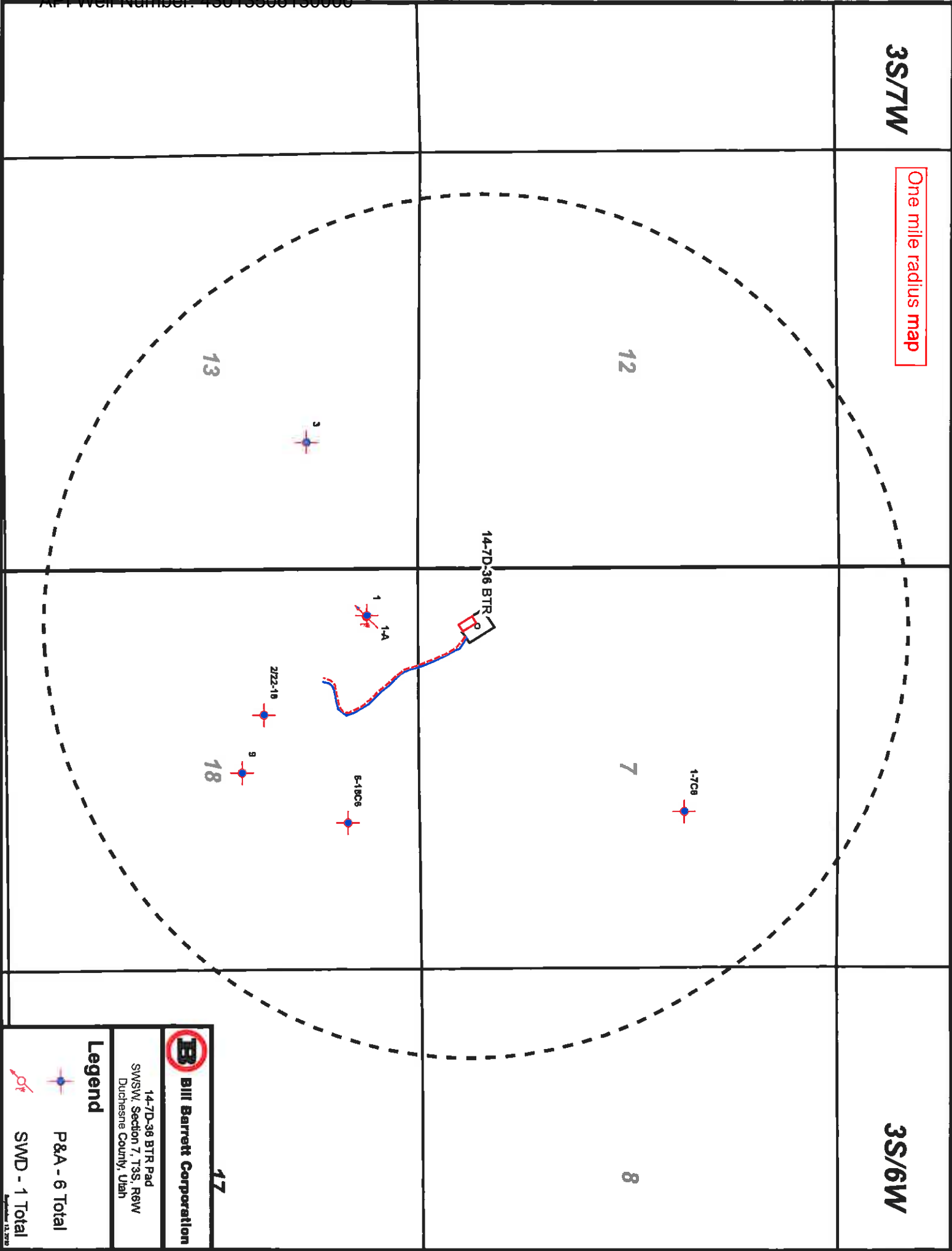




3S/7W

One mile radius map

3S/6W



**Bill Barrett Corporation**

14-7D-36 BTR Pad  
SWSW, Section 7, T3S, R6W  
Duchesne County, Utah

**Legend**

P&A - 6 Total  
SWD - 1 Total

BILL BARRETT CORPORATION  
#14-7D-36 BTR  
SECTION 7, T3S, R6W, U.S.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM DUCHESNE, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTELY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY, THEN WESTERLY DIRECTION APPROXIMATELY 4.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 14.7 MILES.

# BILL BARRETT CORPORATION

#14-7D-36 BTR

LOCATED IN DUCHESNE COUNTY, UTAH

SECTION 7, T3S, R6W, U.S.B.&M.

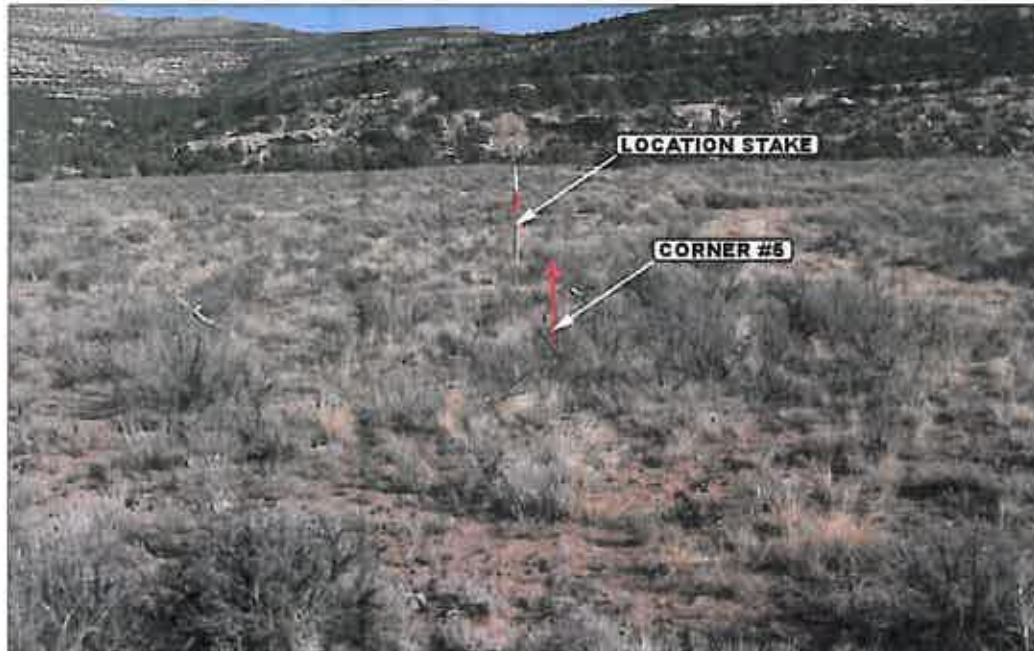


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

LOCATION PHOTOS

12 18 09  
MONTH DAY YEAR

PHOTO

TAKEN BY: D.R.

DRAWN BY: J.H.

REV: 08-31-10 J.J.

**Bill Barrett Corp**  
Duchesne County, UT (NAD 1927)  
Sec. 7-T3S-R6W  
#14-7D-36 BTR

**Plan #1**

**Plan: Plan #1 Proposal**

# **Sperry Drilling Services**

## **Proposal Report**

**03 November, 2010**

Well Coordinates: 691,666.49 N, 2,248,063.89 E (40° 13' 44.15" N, 110° 36' 41.54" W)

Ground Level: 6,260.00 ft

Local Coordinate Origin:

Centered on Well #14-7D-36 BTR

Viewing Datum:

KB @ 6275.00ft (Patterson 506)

TVDs to System:

N

North Reference:

True

Unit System:

API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 43I

**HALLIBURTON**

**Plan Report for #14-7D-36 BTR - Plan #1 Proposal**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>KOP - Begin 2.0°/100' Build at 3500.00ft</b>										
3,600.00	2.00	97.02	3,599.98	-0.21	1.73	1.75	2.00	2.00	0.00	97.02
3,700.00	4.00	97.02	3,699.84	-0.85	6.93	6.98	2.00	2.00	0.00	0.00
3,800.00	6.00	97.02	3,799.45	-1.92	15.58	15.69	2.00	2.00	0.00	0.00
3,900.00	8.00	97.02	3,898.70	-3.41	27.67	27.88	2.00	2.00	0.00	0.00
4,000.00	10.00	97.02	3,997.47	-5.32	43.20	43.52	2.00	2.00	0.00	0.00
4,009.97	10.20	97.02	4,007.28	-5.53	44.93	45.27	2.00	2.00	0.00	0.00
<b>End of Build at 4009.97ft</b>										
4,100.00	10.20	97.02	4,095.89	-7.48	60.75	61.21	0.00	0.00	0.00	0.00
4,200.00	10.20	97.02	4,194.31	-9.64	78.33	78.92	0.00	0.00	0.00	0.00
4,300.00	10.20	97.02	4,292.73	-11.81	95.90	96.63	0.00	0.00	0.00	0.00
4,400.00	10.20	97.02	4,391.15	-13.97	113.48	114.33	0.00	0.00	0.00	0.00
4,500.00	10.20	97.02	4,489.57	-16.13	131.05	132.04	0.00	0.00	0.00	0.00
4,541.08	10.20	97.02	4,530.00	-17.02	138.27	139.32	0.00	0.00	0.00	0.00
<b>Green River</b>										
4,600.00	10.20	97.02	4,587.99	-18.30	148.63	149.75	0.00	0.00	0.00	0.00
4,700.00	10.20	97.02	4,686.41	-20.46	166.20	167.46	0.00	0.00	0.00	0.00
4,800.00	10.20	97.02	4,784.83	-22.62	183.78	185.16	0.00	0.00	0.00	0.00
4,900.00	10.20	97.02	4,883.25	-24.79	201.35	202.87	0.00	0.00	0.00	0.00
5,000.00	10.20	97.02	4,981.67	-26.95	218.93	220.58	0.00	0.00	0.00	0.00
5,100.00	10.20	97.02	5,080.09	-29.11	236.50	238.29	0.00	0.00	0.00	0.00
5,200.00	10.20	97.02	5,178.51	-31.28	254.08	255.99	0.00	0.00	0.00	0.00

## Plan Report for #14-7D-36 BTR - Plan #1 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,300.00	10.20	97.02	5,276.92	-33.44	271.65	273.70	0.00	0.00	0.00	0.00
5,400.00	10.20	97.02	5,375.34	-35.60	289.23	291.41	0.00	0.00	0.00	0.00
5,500.00	10.20	97.02	5,473.76	-37.77	306.80	309.12	0.00	0.00	0.00	0.00
5,600.00	10.20	97.02	5,572.18	-39.93	324.38	326.82	0.00	0.00	0.00	0.00
5,700.00	10.20	97.02	5,670.60	-42.10	341.95	344.53	0.00	0.00	0.00	0.00
5,800.00	10.20	97.02	5,769.02	-44.26	359.53	362.24	0.00	0.00	0.00	0.00
<b>Hold Angle at 10.20°</b>										
5,900.00	10.20	97.02	5,867.44	-46.42	377.10	379.94	0.00	0.00	0.00	0.00
6,000.00	10.20	97.02	5,965.86	-48.59	394.68	397.65	0.00	0.00	0.00	0.00
6,100.00	10.20	97.02	6,064.28	-50.75	412.25	415.36	0.00	0.00	0.00	0.00
6,200.00	10.20	97.02	6,162.70	-52.91	429.83	433.07	0.00	0.00	0.00	0.00
6,300.00	10.20	97.02	6,261.12	-55.08	447.40	450.77	0.00	0.00	0.00	0.00
6,400.00	10.20	97.02	6,359.54	-57.24	464.98	468.48	0.00	0.00	0.00	0.00
6,500.00	10.20	97.02	6,457.96	-59.40	482.55	486.19	0.00	0.00	0.00	0.00
6,600.00	10.20	97.02	6,556.38	-61.57	500.13	503.90	0.00	0.00	0.00	0.00
6,700.00	10.20	97.02	6,654.80	-63.73	517.70	521.60	0.00	0.00	0.00	0.00
6,705.28	10.20	97.02	6,660.00	-63.84	518.63	522.54	0.00	0.00	0.00	0.00
<b>TGR3</b>										
6,800.00	10.20	97.02	6,753.22	-65.89	535.28	539.31	0.00	0.00	0.00	0.00
6,900.00	10.20	97.02	6,851.64	-68.06	552.85	557.02	0.00	0.00	0.00	0.00
7,000.00	10.20	97.02	6,950.06	-70.22	570.43	574.73	0.00	0.00	0.00	0.00
7,100.00	10.20	97.02	7,048.48	-72.38	588.00	592.43	0.00	0.00	0.00	0.00
7,200.00	10.20	97.02	7,146.90	-74.55	605.58	610.14	0.00	0.00	0.00	0.00
7,300.00	10.20	97.02	7,245.32	-76.71	623.15	627.85	0.00	0.00	0.00	0.00
7,400.00	10.20	97.02	7,343.74	-78.88	640.73	645.56	0.00	0.00	0.00	0.00
7,500.00	10.20	97.02	7,442.16	-81.04	658.30	663.26	0.00	0.00	0.00	0.00
7,505.65	10.20	97.02	7,447.72	-81.16	659.30	664.26	0.00	0.00	0.00	0.00
<b>Begin 2.0°/100ft Drop to Vertical at 7505.65ft</b>										
7,513.05	10.05	97.02	7,455.00	-81.32	660.59	665.56	2.00	-2.00	0.00	180.00
<b>Douglas Creek</b>										
7,600.00	8.31	97.02	7,540.84	-83.01	674.36	679.44	2.00	-2.00	0.00	-180.00
7,700.00	6.31	97.02	7,640.02	-84.57	686.99	692.17	2.00	-2.00	0.00	180.00
7,800.00	4.31	97.02	7,739.58	-85.70	696.18	701.42	2.00	-2.00	0.00	180.00
7,895.58	2.40	97.02	7,835.00	-86.38	701.73	707.02	2.00	-2.00	0.00	-180.00
<b>3Point Marker</b>										
7,900.00	2.31	97.02	7,839.41	-86.41	701.91	707.20	2.00	-2.00	0.00	180.00
8,000.00	0.31	97.02	7,939.38	-86.69	704.18	709.49	2.00	-2.00	0.00	180.00
8,015.62	0.00	0.00	7,955.00	-86.69	704.23	709.53	2.00	-2.00	0.00	-180.00
<b>End of Drop at 8015.62ft - Black Shale</b>										
8,100.00	0.00	0.00	8,039.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,139.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,295.62	0.00	0.00	8,235.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>Castle Peak</b>										
8,300.00	0.00	0.00	8,239.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,339.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,439.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,539.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,639.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,739.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,839.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
8,965.62	0.00	0.00	8,905.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR1</b>										
9,000.00	0.00	0.00	8,939.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,095.62	0.00	0.00	9,035.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>Wasatch</b>										
9,100.00	0.00	0.00	9,039.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,139.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,239.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,345.62	0.00	0.00	9,285.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00



**Plan Report for #14-7D-36 BTR - Plan #1 Proposal**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
<b>CR2</b>										
9,400.00	0.00	0.00	9,339.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,439.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,539.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,695.62	0.00	0.00	9,635.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>Uteland Butte</b>										
9,700.00	0.00	0.00	9,639.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,705.62	0.00	0.00	9,645.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR3</b>										
9,800.00	0.00	0.00	9,739.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,839.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	9,939.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,035.62	0.00	0.00	9,975.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR4</b>										
10,100.00	0.00	0.00	10,039.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,139.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,239.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,350.62	0.00	0.00	10,290.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR4A</b>										
10,400.00	0.00	0.00	10,339.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,490.62	0.00	0.00	10,430.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR5</b>										
10,500.00	0.00	0.00	10,439.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,600.00	0.00	0.00	10,539.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,660.62	0.00	0.00	10,600.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR6</b>										
10,700.00	0.00	0.00	10,639.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,739.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,839.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
10,985.62	0.00	0.00	10,925.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>CR7</b>										
11,000.00	0.00	0.00	10,939.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
11,100.00	0.00	0.00	11,039.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
11,200.00	0.00	0.00	11,139.38	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
11,285.62	0.00	0.00	11,225.00	-86.69	704.23	709.53	0.00	0.00	0.00	0.00
<b>Total Depth at 11285.62ft</b>										

**Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,500.00	3,500.00	0.00	0.00	KOP - Begin 2.0°/100' Build at 3500.00ft
4,009.97	4,007.28	-5.53	44.93	End of Build at 4009.97ft
5,800.00	5,769.02	-44.26	359.53	Hold Angle at 10.20°
7,505.65	7,447.72	-81.16	659.30	Begin 2.0°/100ft Drop to Vertical at 7505.65ft
8,015.62	7,955.00	-86.69	704.23	End of Drop at 8015.62ft
11,285.62	11,225.00	-86.69	704.23	Total Depth at 11285.62ft

**Vertical Section Information**

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
Target	14-7D-36 BTR_Plan1_BHL Tgt	97.31	Slot	0.00	0.00	0.00

**Plan Report for #14-7D-36 BTR - Plan #1 Proposal****Survey tool program**

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	11,285.62	Plan #1 Proposal	MWD

**Formation Details**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,541.08	4,530.00	Green River		0.00	
6,705.28	6,660.00	TGR3		0.00	
7,513.05	7,455.00	Douglas Creek		0.00	
7,895.58	7,835.00	3Point Marker		0.00	
8,015.62	7,955.00	Black Shale		0.00	
8,295.62	8,235.00	Castle Peak		0.00	
8,965.62	8,905.00	CR1		0.00	
9,095.62	9,035.00	Wasatch		0.00	
9,345.62	9,285.00	CR2		0.00	
9,695.62	9,635.00	Uteland Butte		0.00	
9,705.62	9,645.00	CR3		0.00	
10,035.62	9,975.00	CR4		0.00	
10,350.62	10,290.00	CR4A		0.00	
10,490.62	10,430.00	CR5		0.00	
10,660.62	10,600.00	CR6		0.00	
10,985.62	10,925.00	CR7		0.00	

***Targets associated with this wellbore***

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
14-7D-36 BTR_Plan1_BHL Tgt	11,225.00	-90.34	704.23	Point
14-7D-36 BTR_Plan1_Zone Tgt	7,955.00	-86.69	704.23	Circle

**North Reference Sheet for Sec. 7-T3S-R6W - #14-7D-36 BTR - Plan #1**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to KB @ 6275.00ft (Patterson 506). Northing and Easting are relative to #14-7D-36 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -111.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99992241

Grid Coordinates of Well: 691,666.49 ft N, 2,248,063.89 ft E

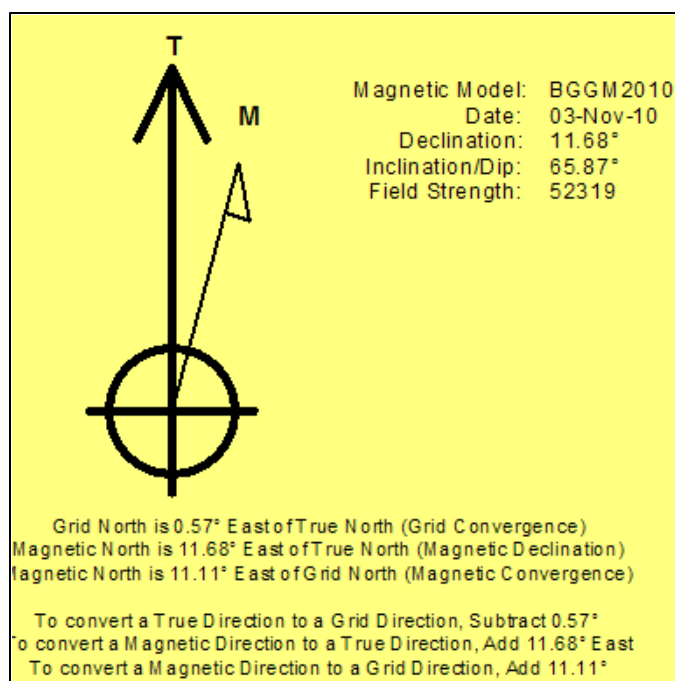
Geographical Coordinates of Well: 40° 13' 44.15" N, 110° 36' 41.54" W

Grid Convergence at Surface is: 0.57°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,285.62ft

the Bottom Hole Displacement is 709.54ft in the Direction of 97.02° (True).

Magnetic Convergence at surface is: -11.11° ( 3 November 2010, , BGGM2010)



Project: Duchesne County, UT (NAD 1927)

Site: Sec. 7-T3S-R6W

Well: #14-7D-36 BTR

Wellbore: Plan #1

Plan: Plan #1 Proposal

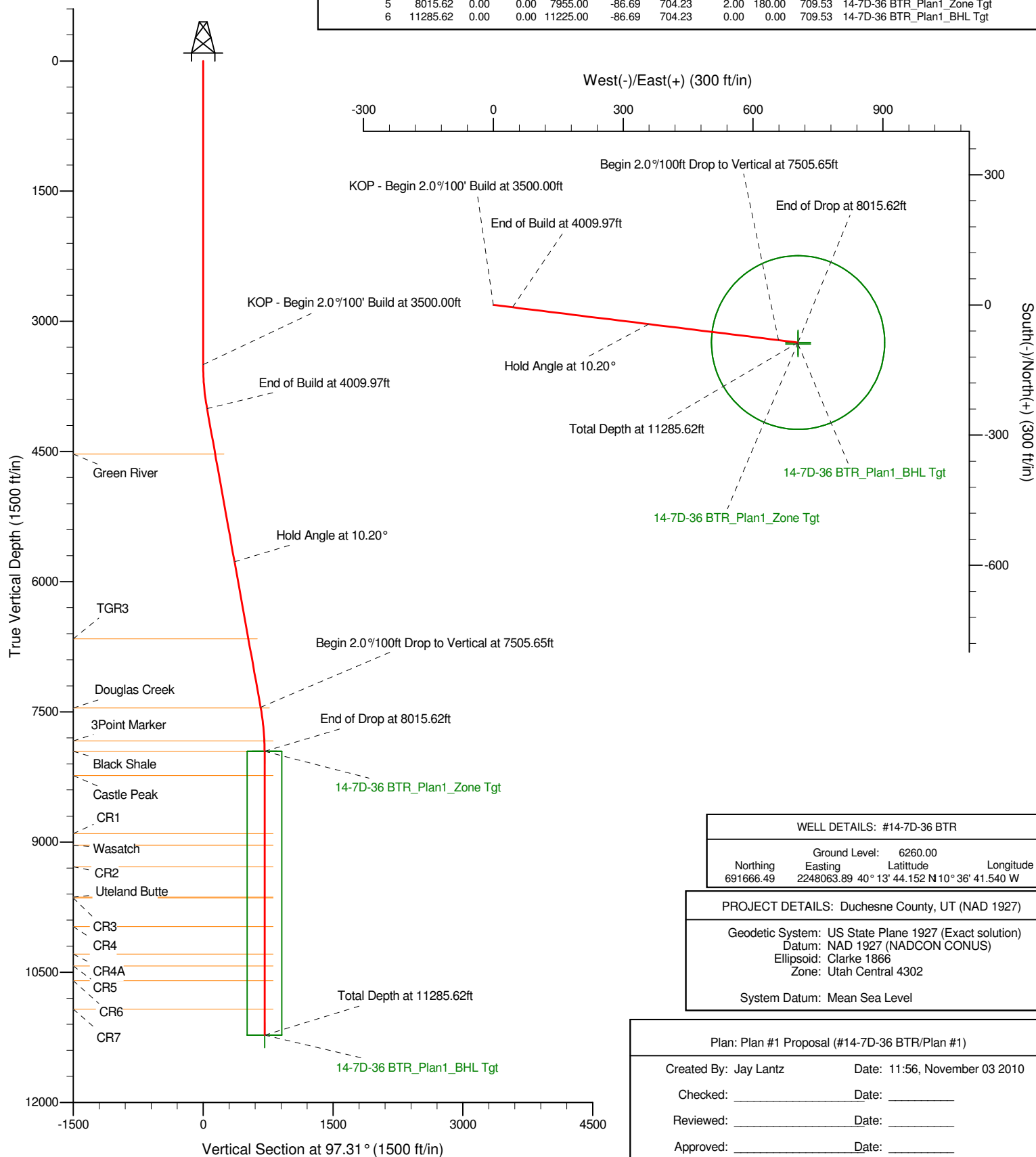
## Bill Barrett Corp

HALLIBURTON

Sperry Drilling

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	
3	4009.97	10.20	97.02	4007.29	-5.53	44.93	2.00	97.02	45.27	
4	7505.65	10.20	97.02	7447.71	-81.16	659.29	0.00	0.00	664.26	
5	8015.62	0.00	0.00	7955.00	-86.69	704.23	2.00	180.00	709.53	14-7D-36 BTR_Plan1_Zone Tgt
6	11285.62	0.00	0.00	11225.00	-86.69	704.23	0.00	0.00	709.53	14-7D-36 BTR_Plan1_BHL Tgt



RECEIVED: Mar. 01, 2011

Well name was changed from 13-7-36 BTR  
to 14-7D-36 BTR after the Surface Use  
Agreements were signed.

STATE OF UTAH  
COUNTY OF DUCHESNE

## SURFACE LAND USE AGREEMENT

### KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, Allen Kent Anderson and Jacqueline K. Anderson, husband and wife, as Joint Tenants, and Murland R. Packer whose mailing address is 1485 West 600 South, Salt Lake City, UT 84104 (hereinafter referred to as GRANTOR), whether one or more), is the owner of the surface of the following described property located in Duchesne County, Utah, to-wit:

TOWNSHIP 3 SOUTH, RANGE 6 WEST, USM  
Section 18: NE1/4NW1/4

See Exhibits "A" Attached

WHEREAS, Bill Barrett Corporation., whose address is 1099 18<sup>th</sup> Street, Suite 2300, Denver, CO 80202 (hereinafter referred to as GRANTEE) desires to construct a pipeline or pipelines and appurtenances thereto for the transportation of natural gas, water, saltwater and other substances on a portion of said property.

WHEREAS, Grantee has agreed to reimburse Grantor for actual damages and injuries to all crops, timber, fences and other improvements located on the surface which results from grantee's operations hereunder, provided that Grantee shall not be held liable or responsible for acts of providence or occurrences beyond Grantee's control, such payment to be made upon commencement of operations to construct the road and pipeline or pipelines; so,

NOW THEREFORE, for and in consideration of the sum of ten dollars (\$10.00) and other valuable considerations, the receipt and sufficiency of which is hereby acknowledged, Grantor does hereby grant, sell and convey unto Grantee, its successors and assigns, the easement and right to use that portion of the herein above described property as may be necessary to construct, entrench, maintain, operate, replace, remove, protect or abandon a pipeline or pipelines for the transportation of natural gas, water, saltwater and other substances exclusively with appurtenances thereto, including, but not limited to, valves, metering equipment, and cathodic equipment (said access road, pipeline or pipelines, appurtenances, valves, metering equipment, cathodic equipment being sometimes collectively called the "facilities") over, under and through the hereinafter described land as described in the attached Exhibit "A". Said pipelines or pipelines to be buried to a depth of not less than three (3) feet below the surface of the ground.

Grantee shall have the free right of ingress and egress to, over, upon, through and across said right-of-way and easement for any and all purposes that may be necessary or incidental to the maintenance of the right-of-way and easement, with the right to use existing roads which enter Grantor's property for the purpose of constructing, inspecting, repairing and maintaining the facilities and the removal or replacement of same at will, either in whole or in part, and the replacement of said pipeline or pipelines with either like or different size pipe. During temporary periods, Grantee may use such portions of the property along and adjacent to said right-of-way as may be necessary in connection with construction, maintenance, repair, removal or replacement of the facilities and if such use cause any damages to Grantor's lands outside of the above described right-of-way, Grantee shall pay Grantor for such damages.

Grantor reserves the right to the use and enjoyment of said property except for the purposes herein granted, but such use shall not hinder, conflict or interfere with Grantee's surface or subsurface rights hereunder or disturb its facilities. Grantor may construct roads, fences, water lines and utilities across the easement as long as they do not cause damage to the pipeline. Prior to construction of any road, fence, water line or utility Grantor shall notify Grantee and Grantee and Grantor shall work together in cooperation to make sure the pipeline or pipelines are not damaged. No reservoir or structure shall be constructed, created or maintained on, over, along or within the lands covered by this easement without Grantee's prior written consent.

The Grantor hereby covenants and warrants that they are the surface owner of the above-described land, and have the right to enter into this agreement.



**FOR THE SAME CONSIDERATION RECITED ABOVE,** Grantor and Grantee do hereby release, discharge and acquit the other from any and all liability, and shall indemnify the other against any and all claims and demands for damages, attorneys fees, injury or loss, existing now or done hereafter, to the surface of said lands or to any third parties arising out of or being the result of their or, their agents, contractors, licensees, permittees, successors and assigns own activities on or use of the subject property. However, such parties' potential liability under this paragraph to the other shall be limited to the acts and/or omission of it, or its predecessors, agents, contractors, licensees, permittees, successors, and assigns, and shall not include any acts and/or omissions of the other party, its agents, contractors, licensees, permittees, successors or assigns. Grantee shall reasonably maintain the subject property in order to prevent unnecessary deterioration of the surface and to keep the property in an uncluttered condition.

**TO HAVE AND TO HOLD** the above described rights and easements, together with all rights necessary to operate and maintain the natural gas line over the right-of-way hereby granted unto the said Grantee, its successors and assigns, until such time as the right-of-way and easement is abandoned under the terms stipulated herein. The Grantee may assign the rights and easements herein granted, either in whole or in part, subject to the terms of this grant, and such rights and easements shall be covenants running with the land and are binding upon Grantor, Grantor's heirs, legal representatives and successors in title.

Grantee shall repair or replace any fences damaged by them, their employees or contractors with a new fence that will be exactly the same type of fence that is damaged. Grantee shall also reseed the pipeline damaged area with native grasses.

Upon abandonment of the facilities Grantee shall restore such facilities to as near its original condition as possible and shall furnish a recordable document evidencing such abandonment to Grantor, or Grantor's successors in interest, and all rights that Grantee has under the terms of this Agreement shall be terminated.

The making, execution and delivery of this document by Grantor has been induced by no representations, statements, warranties, or other agreements other than those herein expressed. This agreement embodies the entire understanding of the parties, and this instrument may be amended or modified only by subsequent written agreement of the parties.

This agreement shall inure to the benefit of the parties hereto, their heirs, successors, and assigns and shall be a burden running with the land.

**IN WITNESS WHEREOF,** this Surface Land Use Agreement is executed as of the dates of the respective acknowledgments of the parties hereto, but is effective as of the 4th day of November, 2010.

**GRANTOR:**

By: Allen Kent Anderson 12-02-10  
Allen Kent Anderson

By: Jacqueline K. Anderson  
Jacqueline K. Anderson

By: Murland R. Packer 11-17-10  
Murland R. Packer

Date: 12/02/10

**GRANTEE:**

**BILL BARRETT CORPORATION**

By: Clint W. Turner  
Clint W. Turner, as Agent for Bill Barrett Corporation

# ACKNOWLEDGMENT

STATE OF CALIFORNIA

COUNTY OF

*Jacqueline K. Anderson*  
*Allen Kent Anderson*

On this 2 day of December, 2010, before me personally appeared Allen Kent Anderson and Jacqueline K. Anderson, husband and wife, known to me to be the persons who are described in and who executed the within instrument and acknowledged to me that they executed the same.

WITNESS my hand and official seal.

*Patricia Sporel*  
Notary Public  
Residing at: 1575 S. Main St.  
Salt Lake City, UT 84115

My Commission Expires: 02/13/2013



# ACKNOWLEDGMENT

STATE OF UTAH

COUNTY OF Wasatch

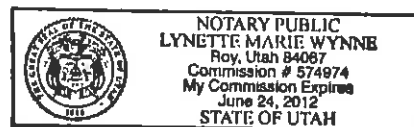
*Murland R. Packard*

On this 17<sup>th</sup> day of November, 2010, before me personally appeared Murland R. Packard known to me to be the person who is described in and who executed the within instrument and acknowledged to me that he executed the same.

WITNESS my hand and official seal.

*Lynette Marie Wynne*  
Notary Public  
Residing at:

My Commission Expires June 24, 2012



# ACKNOWLEDGMENT

STATE OF UTAH

COUNTY OF SALT LAKE

On this 21<sup>st</sup> day of December, 2010, personally appeared before me Clint W. Turner, who, being by me duly sworn, did say that he is the Agent for Bill Barrett Corporation and that said instrument was signed in behalf of said corporation by authority of a resolution of its Board of Directors and said Clint W. Turner acknowledged to me that said corporation executed the same.

My Commission Expires: 10-24-2010

*Daniel William Costley*  
Notary Public  
Residing at:

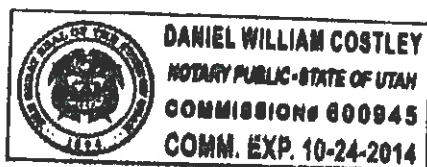


EXHIBIT "A"

Sec. 7

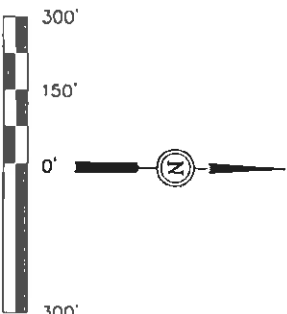
BILL BARRETT COMPANY

PIPELINE RIGHT-OF-WAY  
ON FEE LANDS

(For #13-7-36 BTR)

LOCATED IN

SECTIONS 7 & 18, T3S, R6W,  
U.S.B.&M, DUCHESENE COUNTY, UTAH



SCALE

BASIS OF BEARINGS IS A G.P.S. OBSERVATION

RIGHT-OF-WAY LENGTHS			
PROPERTY OWNER	FEET	ACRES	RODS
LITTLE RED CREEK CATTLE CO.	683.92	0.471	41.45
ALLEN KENT ANDERSON	1707.11	1.176	103.46

▲ = SECTION CORNERS LOCATED.

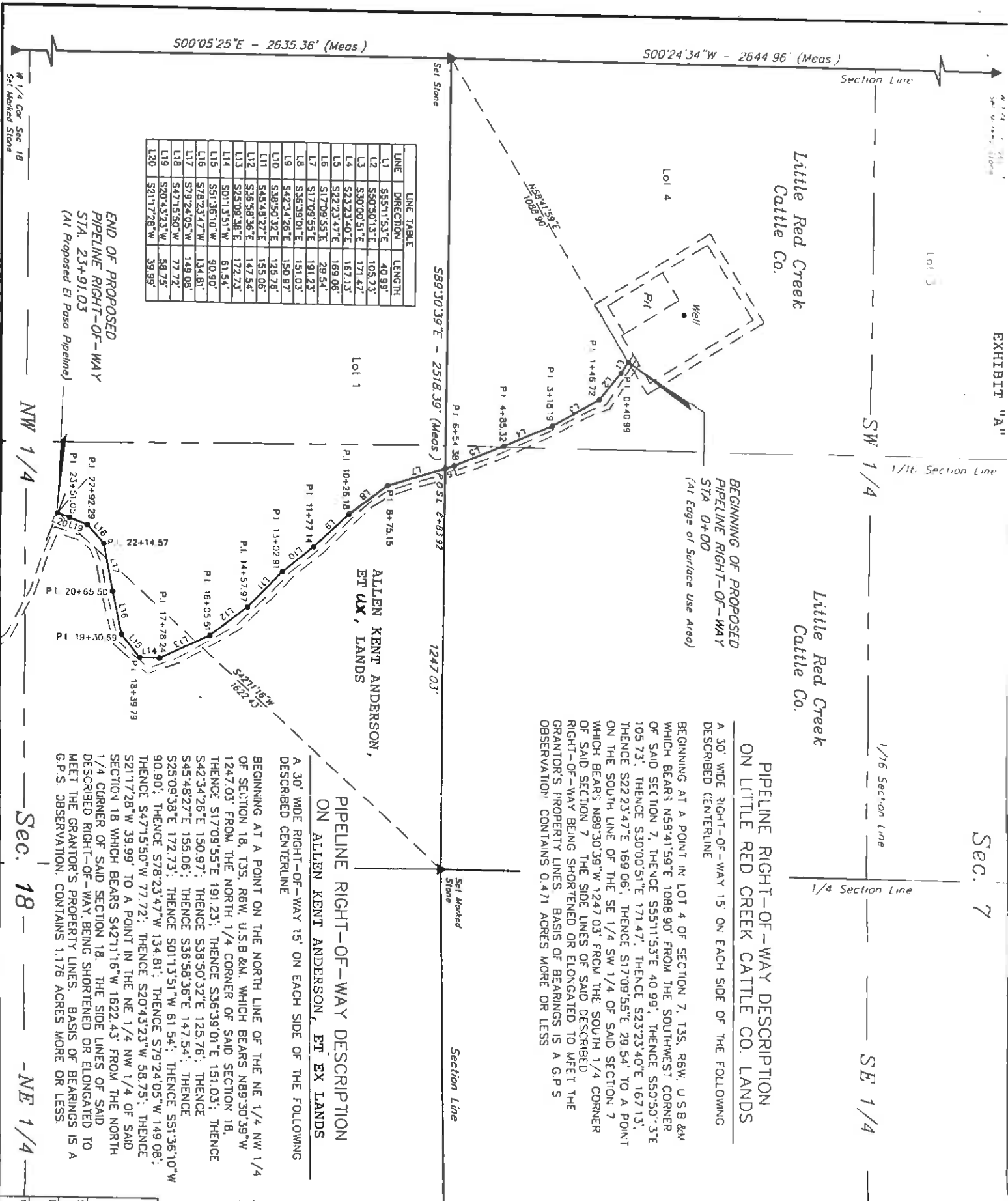
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED BY THE ENGINEER AND CHECKED BY THE SURVEYOR AND THAT THE SAME ARE THE BEST OF MY KNOWLEDGE AND BELIEF.



UTAH ENGINEERING & SURVEYING  
85 SOUTH - 200 EAST • (435) 789-1017  
VERNALL, UTAH - 84078

SCALE	DATE
1" = 300'	12-14-09
PARTY	REFERENCES
D.R. Z.L. C.H.	G.L.O. PLAT
WEATHER	FILE
COLD	4 9 6 3 7



Little Red Creek  
Cattle Co.

Little Red Creek  
Cattle Co.

PIPELINE RIGHT-OF-WAY DESCRIPTION  
ON LITTLE RED CREEK CATTLE CO. LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE

BEGINNING AT A POINT IN LOT 4 OF SECTION 7, T3S, R6W, U.S.B.&M. WHICH BEARS N58°41'59\"E 1088.90' FROM THE SOUTHWEST CORNER OF SAID SECTION 7, THENCE S55°11'53\"E 40.99', THENCE S50°50'33\"E 105.73', THENCE S30°00'51\"E 171.47', THENCE S23°23'40\"E 167.13', THENCE S22°23'47\"E 169.06', THENCE S17°09'55\"E 29.54' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 7 WHICH BEARS N89°30'39\"W 1247.03' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 7. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.471 ACRES MORE OR LESS

PIPELINE RIGHT-OF-WAY DESCRIPTION  
ON ALLEN KENT ANDERSON, ET AL LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE

BEGINNING AT A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SECTION 18, T3S, R6W, U.S.B.&M. WHICH BEARS N89°30'39\"W 1247.03' FROM THE NORTH 1/4 CORNER OF SAID SECTION 18, THENCE S17°09'55\"E 191.23', THENCE S36°39'01\"E 151.03', THENCE S42°34'26\"E 150.97', THENCE S36°50'32\"E 125.76', THENCE S45°48'27\"E 155.06', THENCE S36°58'36\"E 147.54', THENCE S25°08'38\"E 172.73', THENCE S01°13'51\"W 61.54', THENCE S51°36'10\"W 90.90', THENCE S78°23'47\"W 134.81', THENCE S79°24'05\"W 149.08', THENCE S47°15'50\"W 77.72', THENCE S20°43'23\"W 58.75', THENCE S21°17'28\"W 39.99' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 18 WHICH BEARS S42°11'16\"W 1622.43' FROM THE NORTH 1/4 CORNER OF SAID SECTION 18. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.176 ACRES MORE OR LESS.

LINE	DIRECTION	LENGTH
L1	S55°11'53\"E	40.99'
L2	S50°50'33\"E	105.73'
L3	S30°00'51\"E	171.47'
L4	S23°23'40\"E	167.13'
L5	S22°23'47\"E	169.06'
L6	S17°09'55\"E	29.54'
L7	S17°09'55\"E	191.23'
L8	S36°39'01\"E	151.03'
L9	S42°34'26\"E	150.97'
L10	S36°50'32\"E	125.76'
L11	S45°48'27\"E	155.06'
L12	S36°58'36\"E	147.54'
L13	S25°08'38\"E	172.73'
L14	S01°13'51\"W	61.54'
L15	S51°36'10\"W	90.90'
L16	S78°23'47\"W	134.81'
L17	S79°24'05\"W	149.08'
L18	S47°15'50\"W	77.72'
L19	S20°43'23\"W	58.75'
L20	S21°17'28\"W	39.99'

END OF PROPOSED  
PIPELINE RIGHT-OF-WAY  
STA. 23+91.03  
(At Proposed El Paso Pipeline)

**SURFACE DAMAGE AND RIGHT-OF-WAY SETTLEMENT AGREEMENT**

This Agreement, made and entered into this the 15th day of July, 2010, by and between Little Red Creek Cattle Company, LLC, PO Box 332, Tabiona, UT 84072 ("Surface Owner") and Bill Barrett Corporation, 1099 18<sup>th</sup> Street, Suite 2300, Denver CO 80202, ("BBC").

WITNESSETH THAT:

WHEREAS, BBC owns undivided interests in certain oil and gas leases ("leases") covering and affecting the All of Section 7, Township 3 South, Range 6 West, USM, of Duchesne County, Utah; and,

WHEREAS, such leases grant to BBC the right and privilege of ingress, egress, exploring, drilling, mining, operating for, producing and owning oil and gas and all other products produced therewith, together with the right to make surveys on said lands, lay pipelines, construct roads and bridges, dig canals, build power stations, telephone lines, employee houses and other structures on said lands, necessary or useful in BBC's operations; and,

WHEREAS, BBC, pursuant to its rights under the Leases, intends to drill the #13-7-36 BTR well at a legal drill-site location in the S1/2SW1/4 of Section 7, Township 3 South, Range 6 West, USM, Duchesne County, Utah; and,

WHEREAS, Surface Owner warrants ownership to the surface of at least specific portions of the S1/2SW1/4 of Section 7, Township 3 South, Range 6 West, USM, Duchesne County, Utah, and which warranted ownership is further subject to all oil, gas and other mineral rights which are reserved for the use and benefit of the owners thereof; and,

WHEREAS, BBC has agreed to reimburse Surface Owner for actual damages and injuries to all crops, timber, fences and other improvements located on the surface which results from BBC's operations hereunder, provided that BBC shall not be held liable or responsible for acts of providence or occurrences beyond BBC's control, such payment to be made upon commencement of operations to construct the wellsite pad; so,

NOW, THEREFORE, in consideration of TEN (10) AND MORE DOLLARS (\$10.00) and other good and valuable consideration paid by BBC to Surface Owner, the receipt and sufficiency of which is hereby acknowledged, said Surface Owner does hereby release BBC, its agents, employees, licensees, permittees, successors and assigns from all claims for damages as hereinafter provided, which are occasioned by any drilling, testing, completing, producing, operating, reworking and abandoning operations conducted by BBC at the above mentioned well, and agrees that BBC, its agents, employees, licensees, permittees, successors and assigns, may enter upon said premises and construct and maintain such roadways, bridges, and other means of access as are necessary to enable BBC on said location, for the purpose of erecting all necessary surface equipment, including but not limited to separators and tank battery storage facilities and other related facilities for the operating of the subject well or any other well(s) operated by BBC in the general area. Said location and road to be located as shown on Exhibit "A" attached hereto.

For the same consideration, Surface Owner does hereby grant and convey unto BBC, its successors and assigns, the right, at any time and from time to time, to lay, construct, reconstruct, replace, renew, operate, maintain, repair, change the size of, and remove pipes or pipelines for the transportation of oil, petroleum or any of its products, gas, water, saltwater and other substances, or any byproducts thereof, along, over,



through, upon under and across the route of any such lines constructed hereunder, together with rights of ingress and egress to and from said line or lines for the purposes aforesaid. At the request of Surface Owner such pipeline or pipelines shall be buried to a depth below ordinary plow depth. Such pipeline or pipelines to be constructed within the boundaries of the right-of-way granted herein as shown on Exhibit "B" attached hereto.

Surface Owner hereby releases BBC, its successors and assigns, from any and all damages and claims asserted. The consideration paid by BBC to Surface Owner is accepted by Surface Owner as full and final satisfaction for any and all damages and claims for damages to the surface which result from any of BBC's operations and privileges granted under the above Leases. Surface Owner hereby waives the right to collect any further and additional damages that may hereafter be asserted in connection with BBC's use of the land as further described on Exhibits "A and B" attached hereto and agrees to accept in lieu of any such future claims the agreed upon payment provided for in this Agreement.

Nothing herein shall alter or affect the rights of either party hereto with respect to surface use or disturbance of Surface Owner's land surrounding the drillsite locations, respectively, and BBC agrees to give Surface Owner advance notice of its intended use of any such surrounding land before commencing any operations thereon pursuant to its rights. Compensation for the use of any additional lands used by BBC shall be mutually agreed upon.

Surface Owner and BBC do hereby release, discharge and acquit the other from any and all liability, and shall indemnify the other against any and all claims and demands for damages, attorneys fees, injury or loss, existing now or done hereafter, to the surface of said lands or to any third parties arising out of or being the result of their or their agents, contractors licensees, permittees, successors and assigns own activities on or use of the subject property. However, such parties' potential liability under this paragraph to the other shall be limited to the acts and/or omission of its, or its predecessors, agents, contractors, licensees, permittees, successor and assigns, and shall not include any acts and/or omissions of the other party, its agents, contractors, licensees, permittees, successors or assigns. BBC shall reasonably maintain the subject property in order to prevent unnecessary deterioration of the surface and to keep the property in an uncluttered condition.

Any topsoil which is removed by BBC on Surface Owner's land will be stockpiled at the drillsite and will be redistributed on the drillsite upon completion of all operations and the land reseeded with grasses and/or native plants by BBC upon written request by Surface Owner. All mud pits will be filled and material and debris will be removed from the drillsite upon completion of operations. BBC shall remove from the lands covered hereby, at any time during the term hereof or within six (6) months after the plugging and abandonment of the well drilled pursuant to this Agreement, any or all structures, pipes, equipment and other facilities placed on, over, under, through and across any lands covered hereby, excepting fences, culverts, and other land improvements required by the Surface Owner, and title thereto shall be vested in BBC at all times, and shall in no event be considered or construed as fixtures thereto.

BBC shall maintain all roads used pursuant to this Agreement and shall install culverts where necessary to insure adequate drainage from all roads.

BBC shall repair or replace any fences damaged by BBC or its contractors during the term of this Agreement.

Surface Owner and their heirs or assigns shall have full access and use of the road built pursuant to this Agreement.

This Agreement shall inure to the benefit of the parties hereto, their heirs, successors and assigns and shall be a burden running with the land.

This Agreement may be executed in any number of counterparts and all such counterparts shall be deemed to constitute a single Agreement and the execution of one counterpart by any party hereto shall have the same force and effect as if said party had signed all other counterparts.

IN WITNESS WHEREOF, the parties have executed this Surface Damage Settlement Agreement effective as of the 15th day of July, 2010.

SURFACE OWNERS:  
LITTLE RED CREEK CATTLE  
COMPANY, LLC

BILL BARRETT CORPORATION

By: [Signature]  
Gary Stringham, Manager

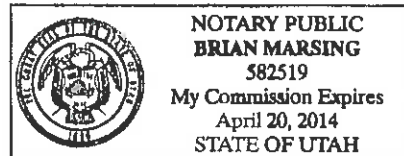
By: [Signature]  
As Agent for Bill Barrett Corporation

STATE OF UTAH )  
 )  
COUNTY OF )

On the 2 day of September, 2010, personally appeared before me Gary Stringham, as Manager of Little Red Creek Cattle Company, LLC known to me to be the persons whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and consideration therein expressed.

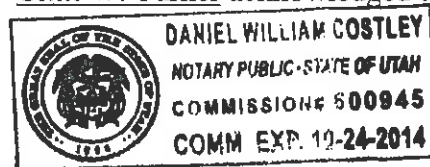
[Signature]  
Notary Public  
Residing at: Kamas UT

My Commission Expires: 4-20-14



STATE OF UTAH )  
 )  
COUNTY OF SALT LAKE )

On the 21 day of December, 2010, personally appeared before me Clint W. Turner, who, being by me duly sworn, did say that he is the Agent of Bill Barrett Corporation and that said instrument was signed in behalf of said corporation by authority of a resolution of its Board of Directors and said Clint W. Turner acknowledged to me that said corporation executed the same.



[Signature]  
Notary Public  
Residing at:

My Commission Expires: 10-24-2014



EXHIBIT "B"

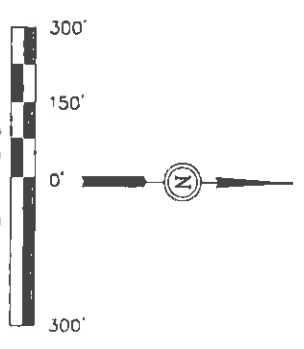
Sec. 7

BILL BARRETT COMPANY

PIPELINE RIGHT-OF-WAY  
ON FEE LANDS

(For #13-7-36 BTR)

LOCATED IN  
SECTIONS 7 & 18, T3S, R6W,  
U.S.B.&M., DUCHESENE COUNTY, UTAH



BASIS OF BEARINGS  
BASIS OF BEARINGS IS A GPS OBSERVATION

RIGHT-OF-WAY LENGTHS				
PROPERTY OWNER	FEET	ACRES	RODS	
LITTLE RED CREEK CATTLE CO.	683.92	0.471	41.95	
MOUNTAIN WEST RANCHES	1707.11	1.176	103.46	

▲ = SECTION CORNERS LOCATED.

CERTIFICATE  
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS AND THAT THE SAME ARE TRUE AND CORRECT TO  
THE BEST OF MY KNOWLEDGE AND BELIEF.  
REGISTERED LAND SURVEYOR  
STATE OF UTAH  
EXPIRATION DATE 10/31/2019

UTAH ENGINEERING & LAND SURVEYING  
85 SOUTH - 200 EAST (4435) 789-1017  
VERNAL, UTAH - 84078

DATE	12-14-09
BY	DR ZL CH
REVISIONS	GLO PLAT
REASON	FILE
NUMBER	4 9 6 3 7

BEGINNING OF PROPOSED  
PIPELINE RIGHT-OF-WAY  
STA. 0+00  
(At Edge of Surface Use Area)

PIPELINE RIGHT-OF-WAY DESCRIPTION  
ON LITTLE RED CREEK CATTLE CO. LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING  
DESCRIBED CENTERLINE  
BEGINNING AT A POINT IN LOT 4 OF SECTION 7, T3S, R6W, U.S.B.&M.  
WHICH BEARS N58°41'59"E 1088.90' FROM THE SOUTHWEST CORNER  
OF SAID SECTION 7, THENCE S55°11'53"E 40.99', THENCE S50°50'13"E  
105.73', THENCE S30°00'51"E 171.47', THENCE S23°23'40"E 167.13',  
THENCE S22°23'47"E 169.06', THENCE S17°09'55"E 29.54' TO A POINT  
ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SAID SECTION 7  
WHICH BEARS N89°30'39"W 1247.03' FROM THE SOUTH 1/4 CORNER  
OF SAID SECTION 7. THE SIDE LINES OF SAID DESCRIBED  
RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE  
GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A GPS  
OBSERVATION. CONTAINS 0.471 ACRES MORE OR LESS

PIPELINE RIGHT-OF-WAY DESCRIPTION  
ON MOUNTAIN WEST RANCHES LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING  
DESCRIBED CENTERLINE:

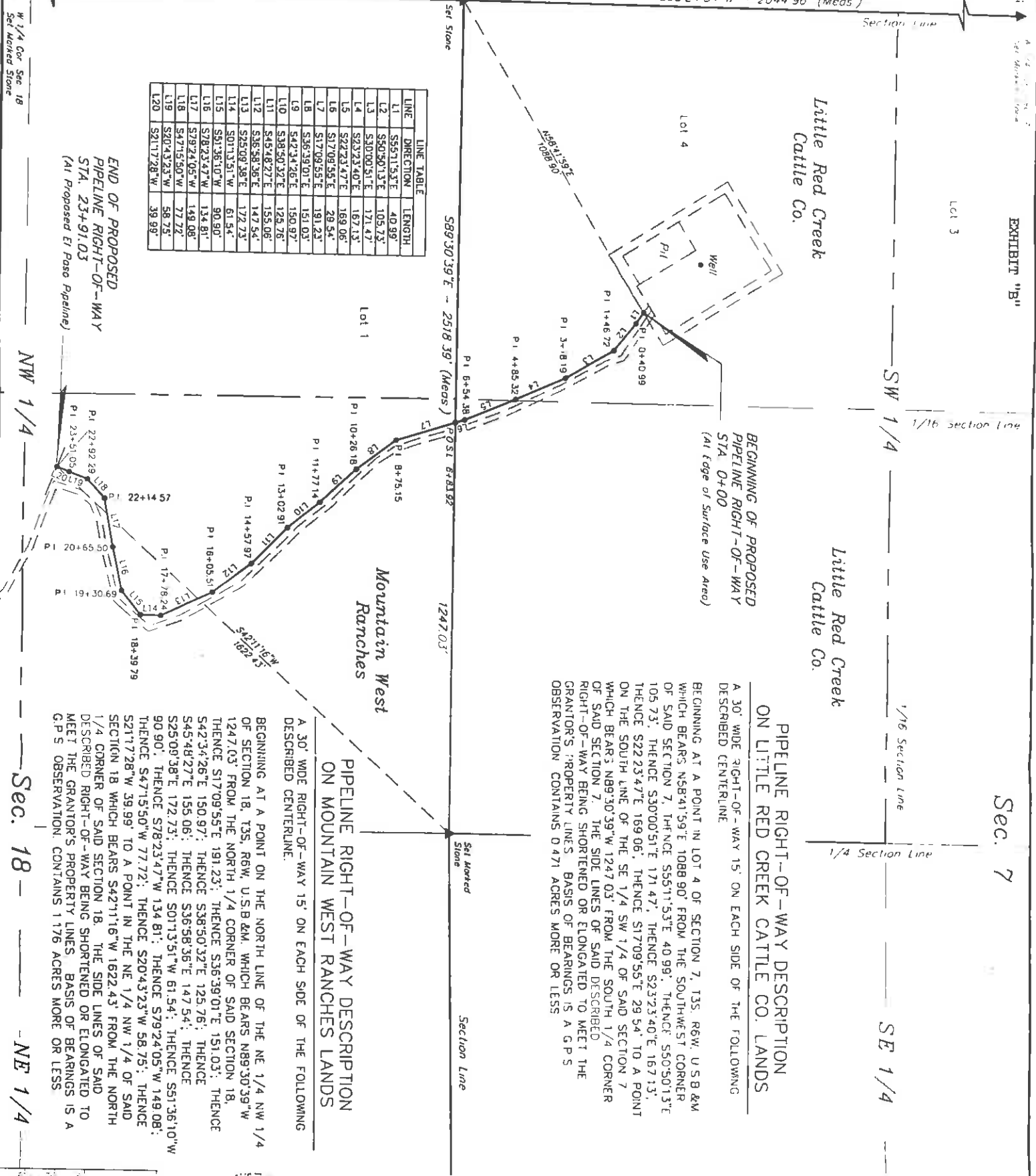
BEGINNING AT A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4  
OF SECTION 18, T3S, R6W, U.S.B.&M. WHICH BEARS N89°30'39"W  
1247.03' FROM THE NORTH 1/4 CORNER OF SAID SECTION 18,  
THENCE S17°09'55"E 191.23', THENCE S36°39'01"E 151.03', THENCE  
S42°34'26"E 150.97', THENCE S36°50'32"E 125.76', THENCE  
S45°48'27"E 155.06', THENCE S36°58'36"E 147.54', THENCE  
S25°09'38"E 172.73', THENCE S01°13'51"W 61.54', THENCE S51°36'10"W  
90.90', THENCE S78°23'47"W 134.81', THENCE S79°24'05"W 149.08',  
THENCE S47°15'50"W 77.72', THENCE S20°43'23"W 58.75',  
S21°17'28"W 39.99' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID  
SECTION 18 WHICH BEARS S42°11'16"W 1622.43' FROM THE NORTH  
1/4 CORNER OF SAID SECTION 18. THE SIDE LINES OF SAID  
DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO  
MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A  
GPS OBSERVATION. CONTAINS 1.176 ACRES MORE OR LESS

LINE	DIRECTION	LENGTH
L1	S55°11'53"E	40.99'
L2	S50°50'13"E	105.73'
L3	S30°00'51"E	171.47'
L4	S23°23'40"E	167.13'
L5	S22°23'47"E	169.06'
L6	S17°09'55"E	29.54'
L7	S17°09'55"E	191.23'
L8	S36°39'01"E	151.03'
L9	S42°34'26"E	150.97'
L10	S36°50'32"E	125.76'
L11	S45°48'27"E	155.06'
L12	S36°58'36"E	147.54'
L13	S25°09'38"E	172.73'
L14	S01°13'51"W	61.54'
L15	S51°36'10"W	90.90'
L16	S78°23'47"W	134.81'
L17	S79°24'05"W	149.08'
L18	S47°15'50"W	77.72'
L19	S20°43'23"W	58.75'
L20	S21°17'28"W	39.99'

END OF PROPOSED  
PIPELINE RIGHT-OF-WAY  
STA. 23+91.03  
(At Proposed El Paso Pipeline)

S00°05'25"E - 2635.36' (Meas)

S00°24'34"W - 2644.96' (Meas)



Little Red Creek  
Cattle Co.

Little Red Creek  
Cattle Co.

Mountain West  
Ranches

W 1/4 Cor Sec 18  
Set Marked Stone

NW 1/4

Sec. 18

NE 1/4

PROPOSED ROAD  
2F-WAY  
7488.73  
of Surface Use Area)

Little Red Creek  
Cattle Co.

Mountain West  
Ranches

*1/4 Section Line*

**Sel Marked  
Store**

1/16 Section Line

N89°24'08"E - 2512.44' (Meas.)

Section Line

Set Worked Store

N00°04'W - 5280.00' (G.L.O.)

N00°39'35"W - 2635 75' (Meas.)

# ROAD RIGHT-OF-WAY DESCRIPTION ON DAVID A. MELESCO LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NW 1/4 NW 1/4 OF SECTION 20, T35S, R6W, U.S.B.&M. WHICH BEARS S34°07'17"E 764.99' FROM THE NORTHWEST CORNER OF SAID SECTION 20, THENCE N72°18'29"W 136.93'; THENCE S62°22'09"W 127.86'; THENCE S77°10'23"W 176.75' TO A POINT (X) ON THE WEST LINE OF THE NW 1/4 NW 1/4 OF SAID SECTION 20 WHICH BEARS S00°02'06"W 647.91' FROM THE NORTHWEST CORNER OF SAID SECTION 20. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.304 ACRES MORE OR LESS.

## ROAD RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE EAST LINE OF THE NE 1/4 NE 1/4 SECTION 19, T3S, R6W, U.S.B.&M. WHICH BEARS S00°02'06"W 5647.91' FROM THE NORTHEAST CORNER OF SAID SECTION 19, THENCE S77°10'23"W 196.79'; THENCE S79°15'22"W 196.50'; THENCE N88°12'52"W 120.91'; THENCE N65°04'06"W 67.35'; THENCE N56°40'55"W 167.48'; THENCE N55°34'13"W 282.14'; THENCE N53°44'08"W 138.96'; THENCE N47°39'17"W 98.44'; THENCE N28°10'32"W 148.41' TO A POINT ON THE NORTH LINE OF THE NW 1/4 NE 1/4 OF SAID SECTION 19 WHICH BEARS S89°55'35"W 1445.98' FROM THE NORTHEAST CORNER OF SAID SECTION 19, THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A C.P.S. OBSERVATION. CONTAINS 1.182 ACRES MORE OR LESS.

ROAD RIGHT-OF-WAY DESCRIPTION  
ON TERRY/LANETTE R. CARLSON LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE SOUTH LINE OF THE SW 1/4 SE 1/4 OF SECTION 18, T3S, R6W, U.S.B.&M. WHICH BEARS S89°55'35"W 1445.98' FROM THE SOUTHEAST CORNER OF SAID SECTION 18, THENCE N28°10'32"W 34.05'; THENCE N24°08'49"W 235.17'; THENCE N19°55'57"W 464.23'; THENCE N26°00'46"W 201.92'; THENCE N33°29'45"W 596.63'; THENCE N29°26'28"W 212.99'; THENCE N20°57'23"W 598.75'; THENCE N39°34'00"W 363.21'; THENCE N27°42'36"W 9.74' TO A POINT ON THE WEST LINE OF THE NW 1/4 SE 1/4 OF SAID SECTION 18 WHICH BEARS S80°47'52"E 2549.74' FROM THE WEST 1/4 CORNER OF SAID SECTION 18. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRATOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.747 ACRES MORE OR LESS.

# ROAD RIGHT-OF-WAY DESCRIPTION ON ANTONIO A. AYALA LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE

# ROAD RIGHT- ON MOUNTAIN

A 30' WIDE RIGHT-OF-WAY DESCRIBED CENTERLINE.

1/4 OF SECTION 16, T5S, 1  
S31.38.39"W 1530.06' FROM  
SECTION 16, THENCE N69.3°  
99.30'; THENCE N67.50°07'  
THENCE N37.39.37"E 50.20'  
N79.30.37"E 81.41'; THENCE  
N40.32.57"E 13.12'; THENCE  
N29.39.10"W 208.27'; THENCE  
N46.13.22"W 80.22'; THENCE  
N43.37.33"W 109.91'; THENCE  
N32.17.13"W 66.99'; THENCE  
N15.56.50"W 113.86' TO A  
1/4 NW 1/4 OF SAID SEC  
1220.94' FROM THE NORTH  
THE SIDE LINES OF SAID D  
SHORTENED OR ELONGATED  
LINES BASIS OF BEARING  
1.342 ACRES MORE OR LESS

ROAD RIGHT--  
ON LITTLE RED C

A 30' WIDE RIGHT-OF-WAY DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON  
1/4 OF SECTION 7, T35, R  
1220.94' FROM THE SOUTH  
THENCE N15°56.50'W 11.98'  
N24°51.45'W 185.37'; THEN  
N19°26.47'W 49.12'; THENCE  
LOT 4 OF SAID SECTION 7  
THE SOUTHWEST CORNER OF  
SAID DESCRIBED RIGHT-OF-  
TO MEET THE GRANTORS' F  
A G.P.S. OBSERVATION. CC

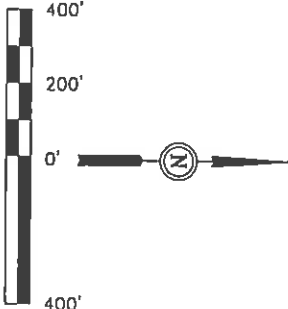
## SURFACE USE

BEGINNING AT A POINT IN U.S.B. &M. WHICH BEARS N57°58'55"W 231.47'; THEN N57°58'55"E 320.00'; THEN S57°58'55"W 88.53' TO THE BEARINGS IS A G.P.S. OBSERVATION POINT OF APPROX. 1.5 ACRES MORE OR LESS.

LOCATION SURFACE USE AREA  
& ROAD RIGHT-OF-WAY ON  
FREE LANDS

(For #13-7-36 BTR)

LOCATED IN  
SECTIONS 7, 18, 19 & 20, T3S, R6W,  
U.S.B.&M., DUCHESENE COUNTY, UTAH



BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LINE TABLE			
LINE	DIRECTION	LENGTH	
L1	N72°18'29"W	136.93'	
L2	S82°22'09"W	127.86'	
L3	S77°10'23"W	176.75'	
L4	S77°10'23"W	186.79'	
L5	S79°15'22"W	196.50'	
L6	N88°22'52"W	120.91'	
L7	N66°04'05"W	67.35'	
L8	N56°40'55"W	467.48'	
L9	N55°34'13"W	282.14'	
L10	N53°44'08"W	138.96'	
L11	N47°39'17"W	98.44'	
L12	N28°10'32"W	148.41'	
L13	N28°10'32"W	34.05'	
L14	N24°08'49"W	235.17'	
L15	N19°55'57"W	464.23'	
L16	N26°00'46"W	201.92'	
L17	N33°29'45"W	596.63'	
L18	N29°26'29"W	212.99'	
L19	N20°57'23"W	398.75'	
L20	N39°34'00"W	383.21'	
L21	N27°42'36"W	9.74'	

P.O.P.L. STA. 46+95.21 BEARS S80°47'52"E  
2549.74' FROM THE WEST 1/4 CORNER OF  
SECTION 18, T3S, R6W, U.S.B.&M.

P.O.P.L. STA. 51+76.94 BEARS N89°56'18"E  
2267.16' FROM THE WEST 1/4 CORNER OF  
SECTION 18, T3S, R6W, U.S.B.&M.

P.O.P.L. STA. 86+38.36 BEARS S31°38'39"W  
1530.06' FROM THE NORTH 1/4 CORNER OF  
SECTION 18, T3S, R6W, U.S.B.&M.

RIGHT-OF-WAY LENGTHS

PROPERTY OWNER	FEET	ACRES	RODS
DAVID A. MELESCO	441.54	0.304	26.76
UTAH STATE FISH & WILDLIFE	1716.98	1.182	104.06
TERRY/LANETTE R. CARLSON	2536.69	1.747	153.74
ATONIO A. AYALA	481.73	0.332	29.20
CHAD C. BYBEE	1461.43	1.006	88.57
MOUNTAIN WEST RANCHES	1948.01	1.342	118.06
LITTLE RED CREEK CATTLE CO.	702.35	0.484	42.57

ROAD RIGHT-OF-WAY DESCRIPTION  
ON MOUNTAIN WEST RANCHES LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE SOUTH LINE OF THE NE 1/4 NW 1/4 OF SECTION 18, T3S, R6W, U.S.B.&M. WHICH BEARS S31°38'39"W 1530.06' FROM THE NORTH 1/4 CORNER OF SAID SECTION 18, THENCE N60°39'22"W 48.12'; THENCE N71°04'11"W 99.30'; THENCE N67°50'07"W 104.72'; THENCE N16°44'56"E 75.55'; THENCE N37°39'37"E 50.20'; THENCE N66°31'55"E 56.22'; THENCE N79°30'37"E 81.41'; THENCE N76°55'25"E 165.42'; THENCE N40°32'57"E 131.12'; THENCE N19°34'04"W 104.15'; THENCE N29°39'10"W 209.27'; THENCE N44°01'18"W 164.87'; THENCE N46°13'22"W 80.22'; THENCE N38°32'28"W 113.34'; THENCE N43°37'39"W 109.91'; THENCE N42°38'39"W 97.31'; THENCE N32°17'13"W 66.99'; THENCE N19°04'04"W 75.00'; THENCE N15°56'50"W 113.86' TO A POINT ON THE NORTH LINE OF THE NE 1/4 NW 1/4 OF SAID SECTION 18 WHICH BEARS N89°30'39"W 1220.94' FROM THE NORTH 1/4 CORNER OF SAID SECTION 18. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.342 ACRES MORE OR LESS.

ROAD RIGHT-OF-WAY DESCRIPTION  
ON LITTLE RED CREEK CATTLE CO. LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE SOUTH LINE OF THE SE 1/4 SW 1/4 OF SECTION 7, T3S, R6W, U.S.B.&M. WHICH BEARS N89°30'39"W 1220.94' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 7, THENCE N15°56'50"W 11.98'; THENCE N20°55'39"W 160.16'; THENCE N24°51'45"W 185.37'; THENCE N28°27'11"W 157.16'; THENCE N19°26'47"W 49.12'; THENCE N56°24'07"W 138.57' TO A POINT IN LOT 4 OF SAID SECTION 7 WHICH BEARS N58°40'59"E 1114.73' FROM THE SOUTHWEST CORNER OF SAID SECTION 7. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.484 ACRES MORE OR LESS.

SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN LOT 4 OF SECTION 7, T3S, R6W, U.S.B.&M. WHICH BEARS N58°40'59"E 1114.73' FROM THE SOUTHWEST CORNER OF SAID SECTION 7, THENCE S57°58'55"W 231.47'; THENCE N32°01'05"W 425.00'; THENCE N57°58'55"E 320.00'; THENCE S32°01'05"E 425.00'; THENCE S57°58'55"W 88.53' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.122 ACRES MORE OR LESS.

SECTION 18

THE FOLLOWING

OF SECTION 20,  
64.99' FROM THE  
E N72°18'29"W  
77°10'23"W 176.75'  
NW 1/4 OF SAID  
FROM THE  
SIDE LINES OF  
D OR ELONGATED  
S OF BEARINGS IS  
MORE OR LESS.

SECTION 19

THE FOLLOWING

NE 1/4 NE 1/4  
S S00°02'06"W  
SECTION 19,  
196.50'; THENCE  
; THENCE  
; THENCE  
THENCE  
LINE OF THE NW  
89°55'35"W  
SECTION 19  
LY BEING  
R'S PROPERTY  
TION. CONTAINS

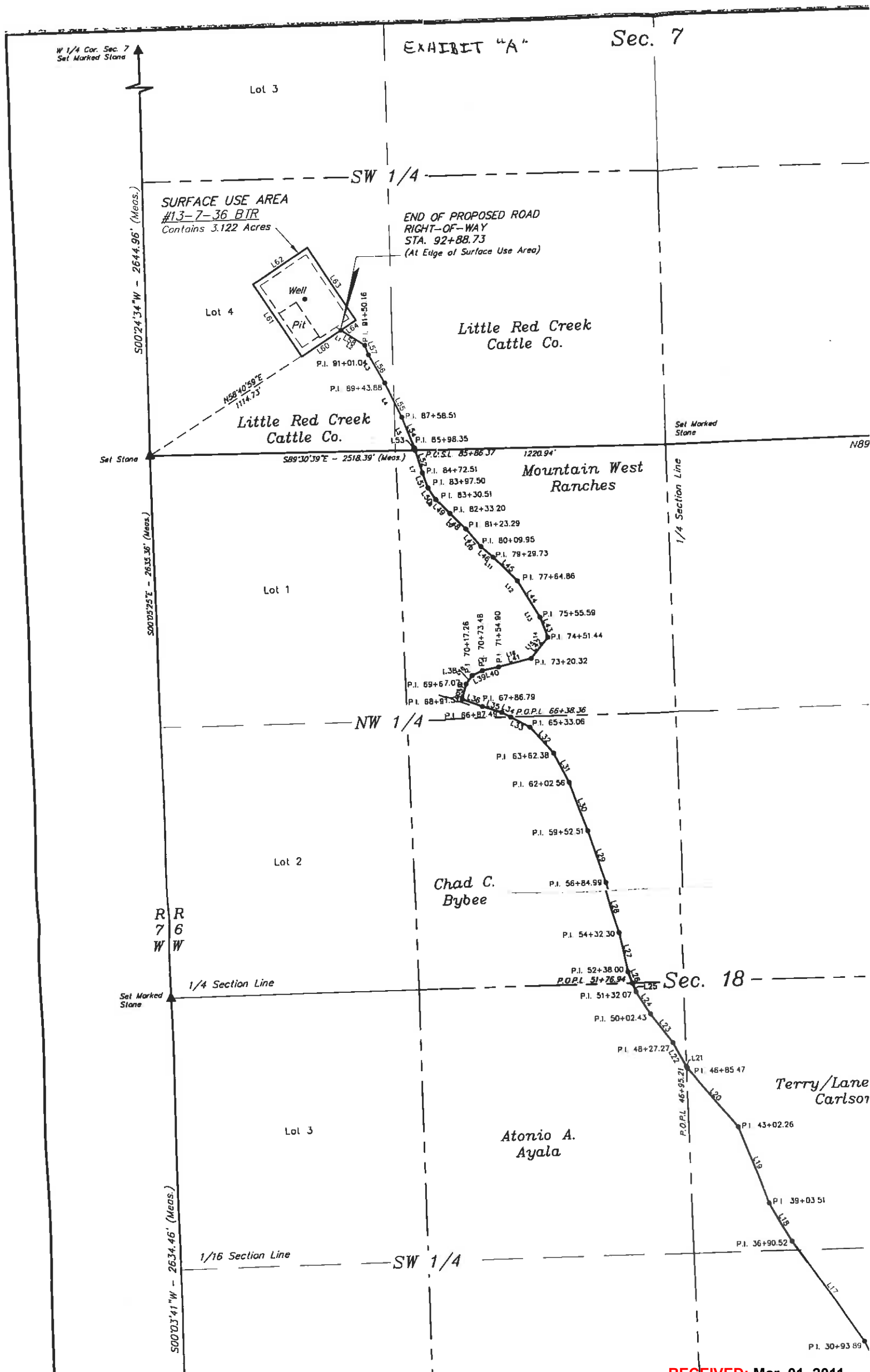
SECTION 7

THE FOLLOWING

SW 1/4 SE  
ARS  
TER OF SAID  
N24°08'49"W  
9°26'29"W  
9°34'00"W  
THE WEST LINE  
BEARS  
OF SAID  
RIGHT-OF-WAY  
GRANTOR'S  
OBSERVATION.

SECTION 18

THE FOLLOWING



**SURFACE USE PLAN**

BILL BARRETT CORPORATION

**14-7D-36 BTR Well Pad**

SWSW, 744' FSL, 776' FWL, Section 7, T3S, R6W, USB&M (surface hole)

SESW, 660' FSL, 1480' FWL, Section 7, T3S, R6W, USB&M (bottom hole)

Duchesne County, Utah

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**A surface use agreement exists with the surface use owner. The onsite for this location is pending.**

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

1. **Existing Roads:**

- a. The proposed well site is located approximately 14.7 miles northwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing Duchesne County maintained Koch Road (CR 23) would be utilized for 4.7 miles providing access to the proposed well site access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permit are required
- f. All existing roads would be maintained and kept in good repair during all phases of operation.



Bill Barrett Corporation  
Surface Use Plan  
14-7D-36 BTR  
Duchesne County, UT

2. Planned Access Road:

- a. Approximately 0.5 miles of existing two-track access road would be upgraded and approximately 715-ft of that existing two-track would be re-routed around the eastern side of the proposed pad (see Topographic Map B).
- b. The road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed because the access road is short and adequate site distance exists in all directions.
- i. No culverts or low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.



Bill Barrett Corporation  
Surface Use Plan  
14-7D-36 BTR  
Duchesne County, UT

- j. No gates or cattle guards are anticipated at this time.
  - k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
  - l. All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007.
  - m. The operator would be responsible for all maintenance needs of the new access road.
3. Location of Existing Wells (see One-Mile Radius Map):
- a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:
    - i. water wells none
    - ii. injection wells none
    - iii. disposal wells one
    - iv. drilling wells none
    - v. temp shut-in wells none
    - vi. producing wells none
    - vii. abandoned wells six
4. Location of Production Facilities
- a. Surface facilities would consist of a wellhead, separator, gas meter, (1) 500 gal methanol tank, (1) 500 gal glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit with natural gas fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
  - b. Most wells would be fitted with a pump jack to assist liquid production if liquid volumes and/or low formation pressures require it. Plunger lift systems do not require any outside source of energy. The prime mover for pump jacks would be small (75 horsepower or less), natural gas-fired internal combustion engines.

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Surface Use Plan  
14-7D-36 BTR  
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- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 2,420 feet of pipeline corridor (see Topographic Map D) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) is proposed. Pipelines would be constructed of steel, polyethylene or fiberglass. and would connect to the existing pipeline servicing nearby El Paso wells. The pipeline crosses entirely private surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- i. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective color, such as Juniper Green, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

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- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- l. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water Supply:

- a. Water for the drilling and completion would be trucked from any of the following locations:

<b>Water Right No. and Application or Change No.</b>	<b>Applicant</b>	<b>Point of Diversion</b>	<b>Source</b>
43-180	Duchesne City Water Service District	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	Strawberry River	Strawberry River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah – Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations.

6. Source of Construction Material:

- a. The use of materials would conform to 43 CFR 3610.2-3.
- b. No construction materials would be removed from the lease or EDA area.
- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

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7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

<b>Disposal Facilities</b>
1. RNI Industries, Inc. – Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
2. Pro Water LLC – Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
3. RN Industries, Inc. – Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
4. Water Disposal, Inc. – Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W
5. Unified Water Pits – Sec. 31, T2S-R4W
6. Iowa Tank Line Pits – 8500 BLM Fence Road, Pleasant Valley

- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.

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- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO<sub>2</sub> gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- l. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.
- m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

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8. Ancillary Facilities:

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.

9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with Ute Tribe specifications.
- d. The pad has been staked at its maximum size of 375 feet x 270 feet with an inboard reserve pit size of 100 feet x 200 feet x 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.



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- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan will be submitted within 90 days of location construction.
- b. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the Ute Tribe specified seed mix.
- f. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a depth optimum to maintain topsoil viability, seeded with the Ute Tribe prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

11. Surface and Mineral Ownership:

- a. Surface ownership –
  - i. Well site, access and pipeline corridor segment: Little Red Creek Cattle Company, LLC, PO Box 332, Tabiona, UT 84072, 801-380-1055

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Surface Use Plan  
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Duchesne County, UT

- ii. Access and pipeline corridor segment: Allen Kent Anderson, 1485 West 600 South, Salt Lake City, UT, 801-910-4924 and Murland R. Packer, 5947 South 3650 West, Roy, UT, 84067, 801-425-6490.
- b. Mineral ownership – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

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 Surface Use Plan  
 14-7D-36 BTR  
 Duchesne County, UT

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as MOAC Report No. 09-226, dated April 28, 2010.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
  - No dogs or firearms within the Project Area.
  - No littering within the Project Area.
  - Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders.
  - Campfires or uncontained fires of any kind would be prohibited.
  - Portable generators used in the Project Area would have spark arrestors.
- d. Disturbance estimates:

**Approximate Acreage Disturbances**

Well Pad		3.12	acres
Access	2640 feet	1.81	acres
Pipeline	2420 feet	1.67	acres
<b>Total</b>		<b>6.6</b>	<b>acres</b>

OPERATOR CERTIFICATION

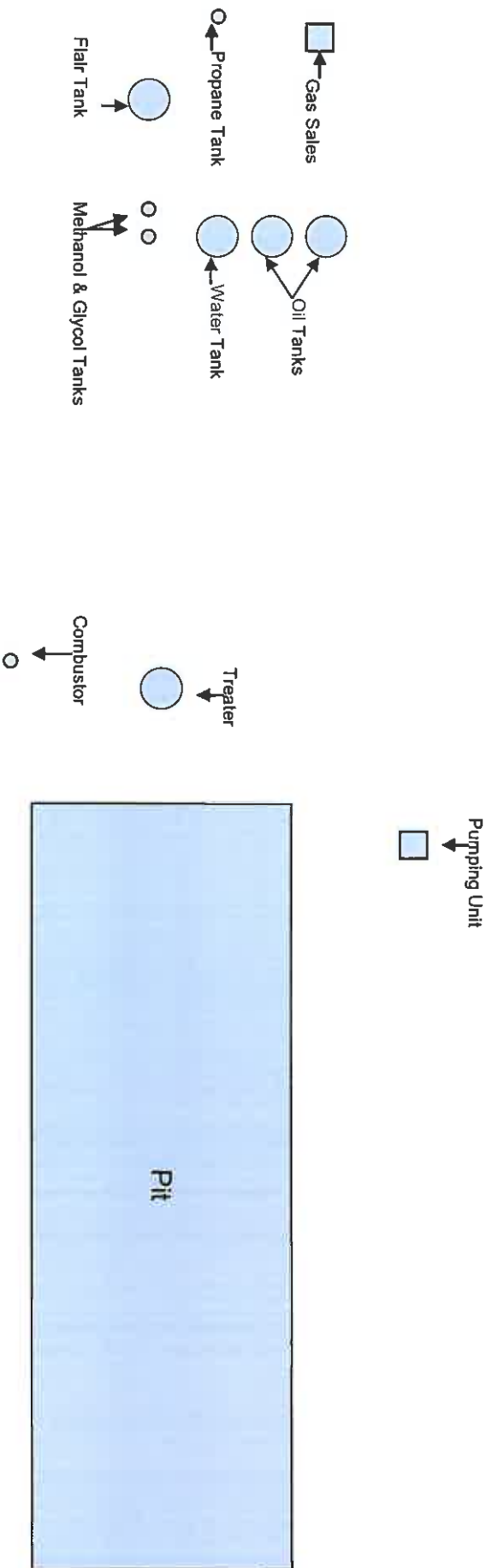
## Certification:

I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

Executed this 1 day of March 2011  
Name: Elaine Winick  
Position Title: Senior Permit Analyst  
Address: 1099 18<sup>th</sup> Street, Suite 2300, Denver, CO 80202  
Telephone: 303-312-8168  
E-mail: ewinick@billbarrettcorp.com  
Field Representative Kary Eldredge / Bill Barrett Corporation  
Address: 1820 W. Highway 40, Roosevelt, UT 84066  
Telephone: 435-725-3515 (office); 435-724-6789 (mobile)  
E-mail: keldredge@billbarrettcorp.com

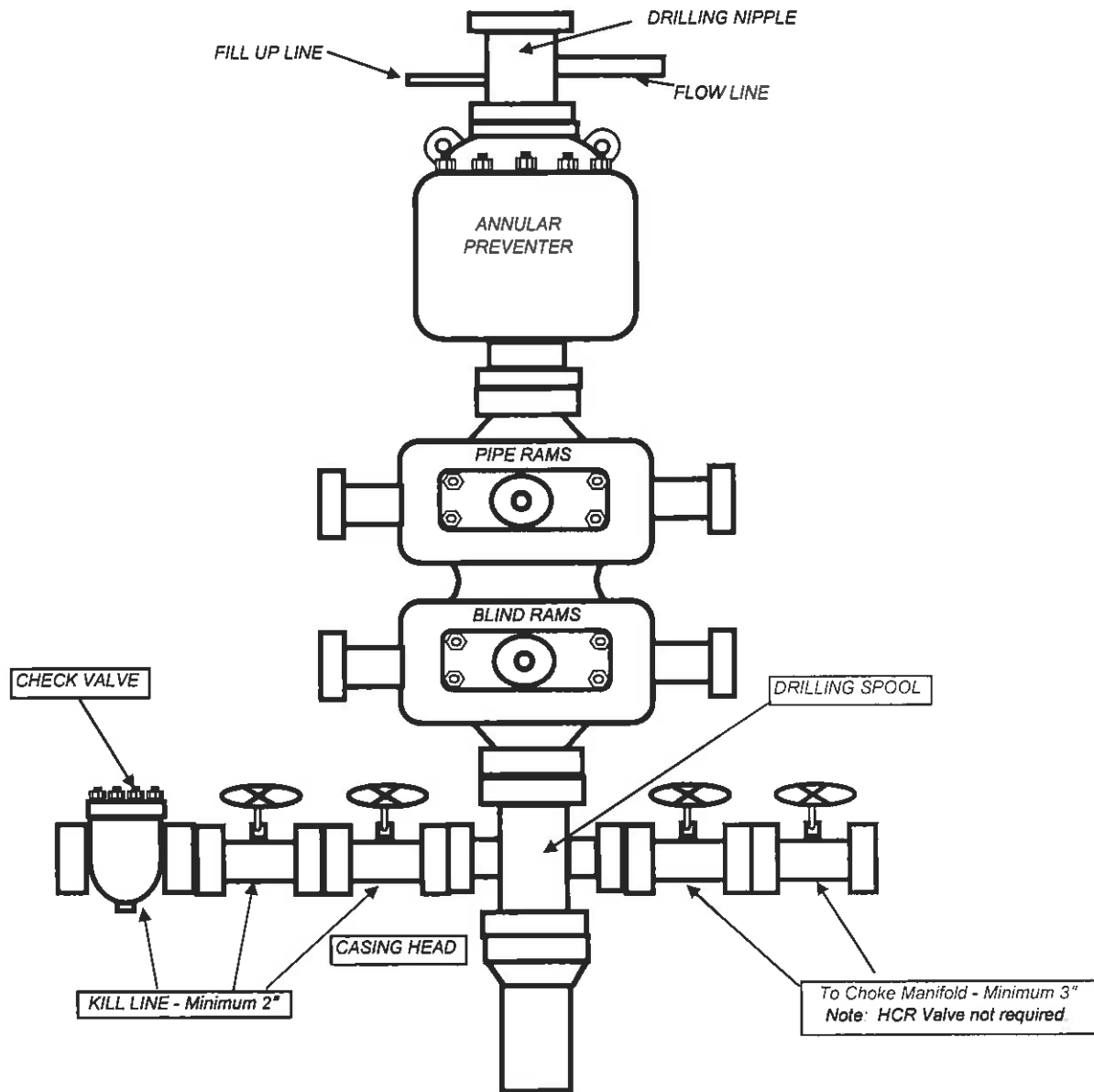
Elaine Winick  
Elaine Winick, Senior Permit Analyst

14-7D-36 BTR Facility Diagram



## BILL BARRETT CORPORATION

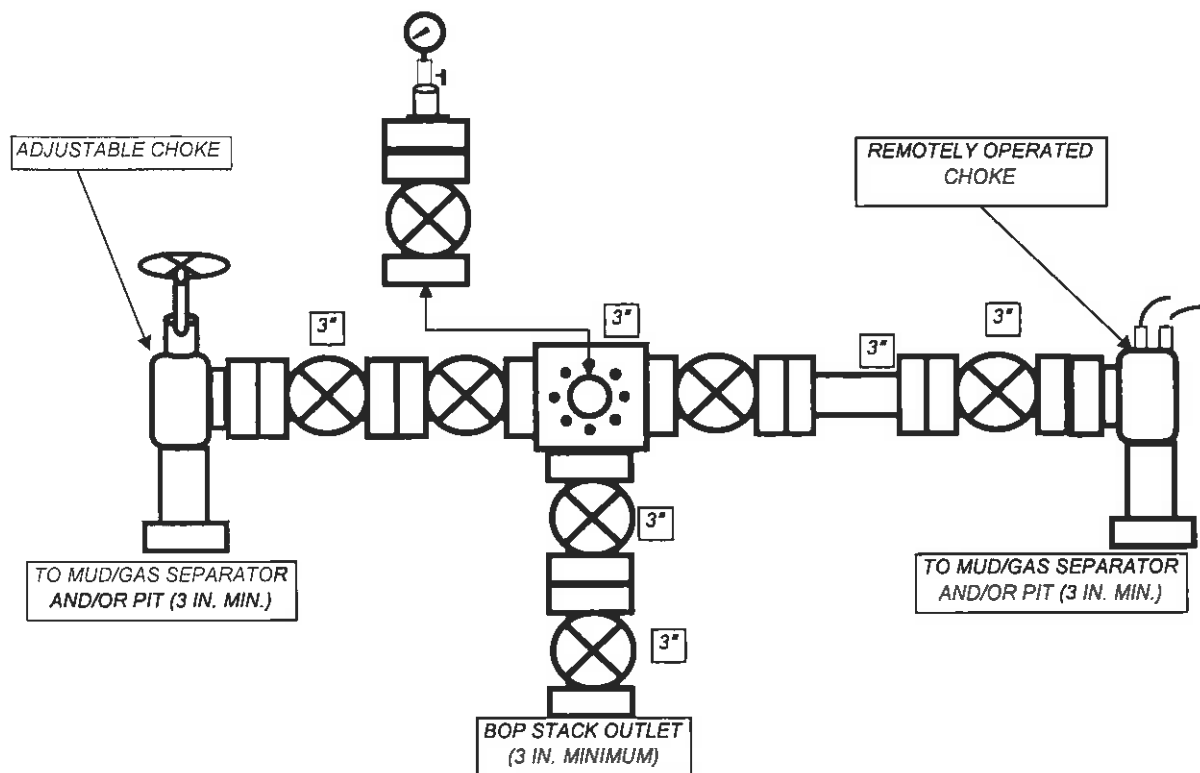
### TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER





## BILL BARRETT CORPORATION

### TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





March 1, 2011

Ms. Diana Mason – Petroleum Technician  
**STATE OF UTAH DIVISION OF OIL, GAS AND MINING**  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: **Exception Location - #14-7D-36 BTR – Blacktail Ridge Area**  
Surface Location: 744' FSL, 776' FWL, SWSW, Section 7-T3S-R6W  
Bottom Location: 660' FSL, 1,480' FWL, SESW, Section 7-T3S-R6W  
Duchesne County, Utah

Dear Ms. Mason,

Bill Barrett Corporation ("BBC") hereby submits an exception location letter in accordance with Oil & Gas Conservation Rules R649-3-3, requesting an exception well location, supported by the following information:

- The location is within our Blacktail Ridge Area.
- The exception location is due to topography requirements and to minimize surface disturbance.
- BBC certifies that it is the working interest owner along with Ute Energy, LLC (who also consent to this exception location request), and together we own 100% of the working interest within 460 feet of the proposed well location.
- Our rights are owned under an Exploration and Development Agreement with the Ute Indian Tribe and Ute Distribution Corporation which provides for the drilling of exploratory wells. This agreement provides that we consult with these owners regarding the drilling of this well.
- BBC will be drilling the 14-7D-36 BTR well location. Once drilled BBC and Ute Energy LLC will earn a Tribal BIA Lease covering 624.80 acres.

Based on the information provided, BBC requests the Division grant this exception to the locating and siting requirements of R649-3-2. Should you have any questions or need further information, please contact me at 303-312-8544.

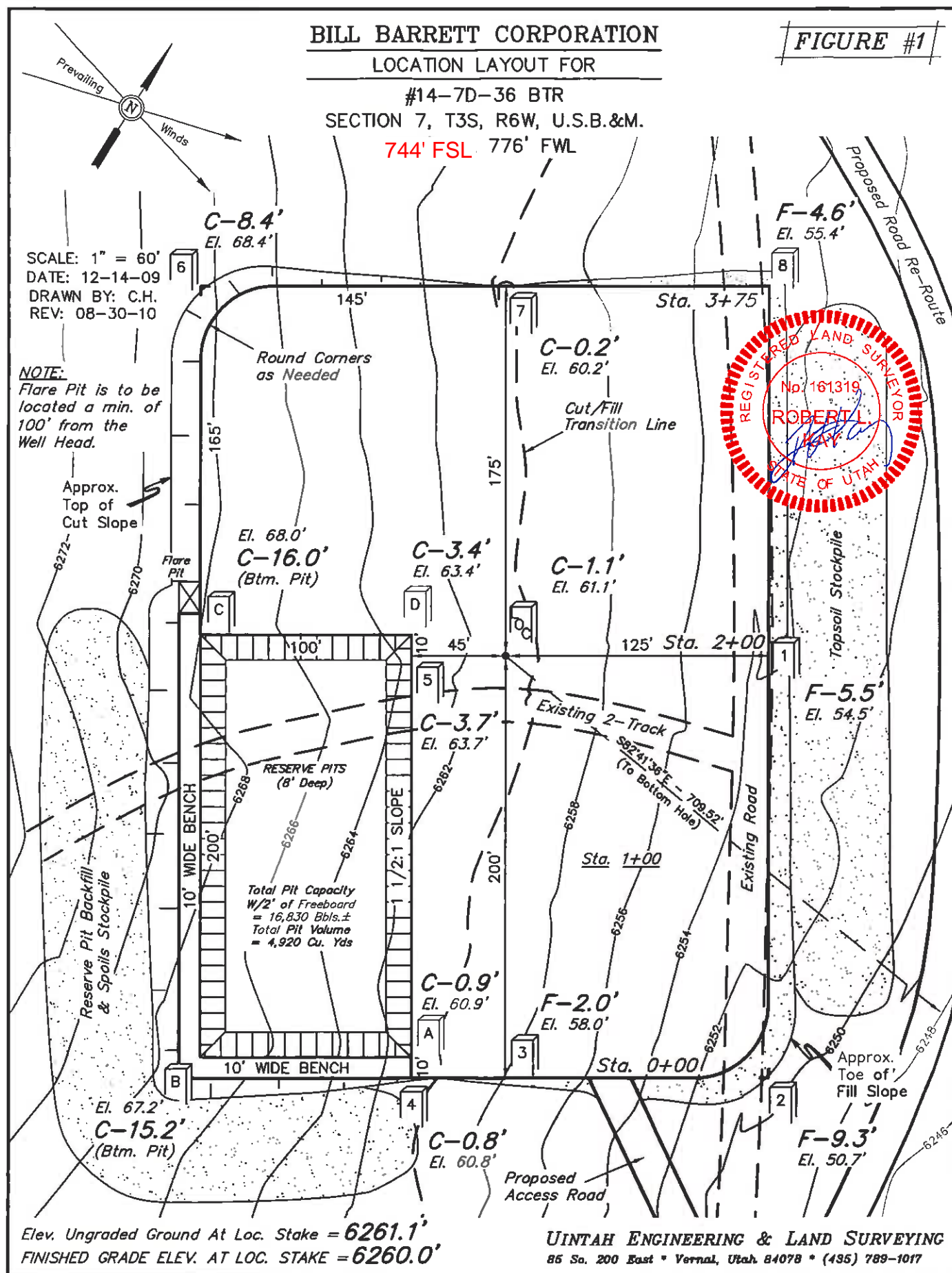
Sincerely,

*David Watts by EIC*

David Watts  
Landman  
[dwards@billbarrettcorp.com](mailto:dwards@billbarrettcorp.com)

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

**RECEIVED: Mar. 01, 2011**



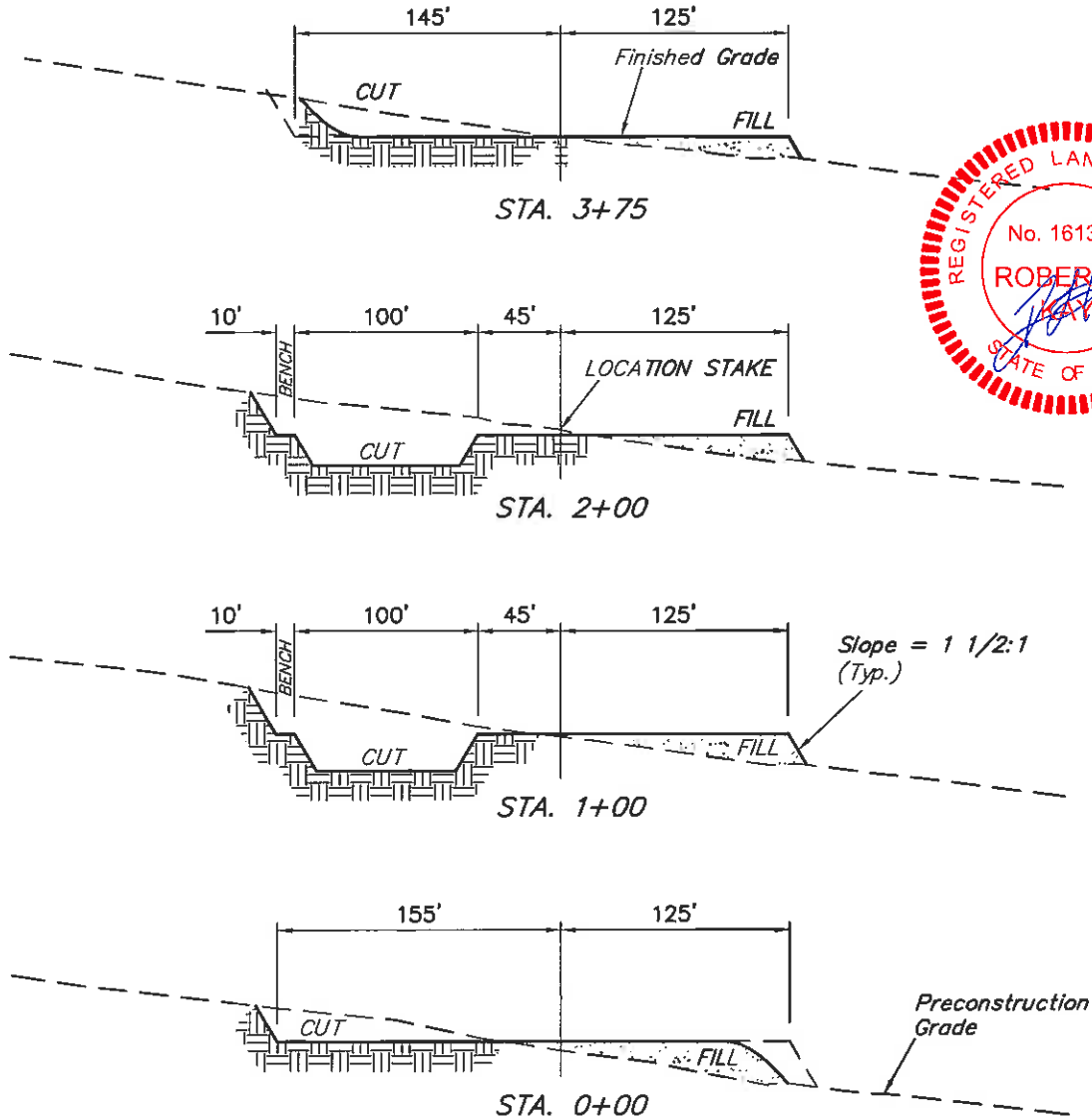
**BILL BARRETT CORPORATION****TYPICAL CROSS SECTION FOR**

#14-7D-36 BTR

SECTION 7, T3S, R6W, U.S.B.&amp;M.

**744' FSL 776' FWL****FIGURE #2**

1" = 40'  
X-Section  
Scale  
1" = 100'  
DATE: 12-14-09  
DRAWN BY: C.H.  
REV: 08-30-10

**NOTE:**

Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area.

**\* NOTE:**

FILL QUANTITY INCLUDES  
5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(12") Topsoil Stripping = 4,420 Cu. Yds.  
Remaining Location = 12,660 Cu. Yds.  
**TOTAL CUT = 17,080 CU.YDS.**  
**FILL = 8,940 CU.YDS.**

EXCESS MATERIAL = 8,140 Cu. Yds.  
Topsoil & Pit Backfill = 6,880 Cu. Yds.  
(1/2 Pit Vol.)

EXCESS UNBALANCE = 1,260 Cu. Yds.  
(After Interim Rehabilitation)

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

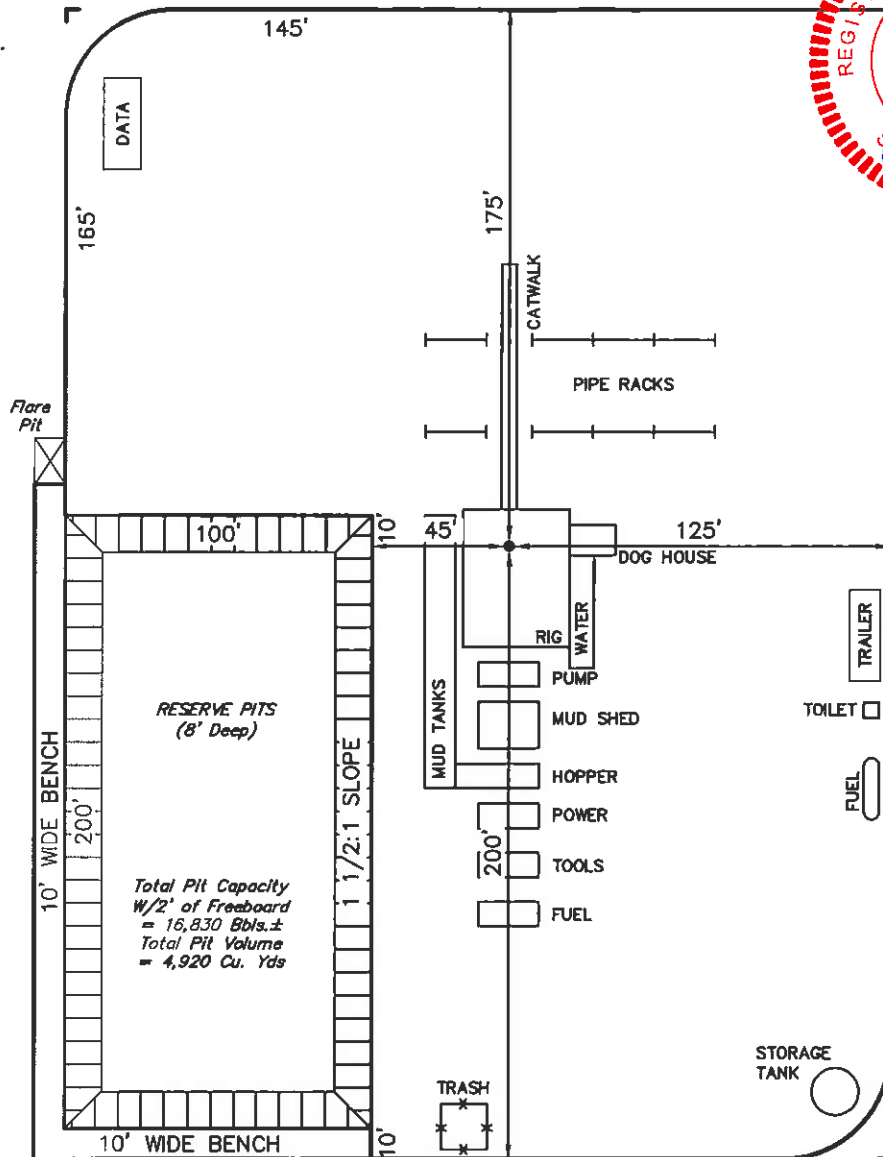
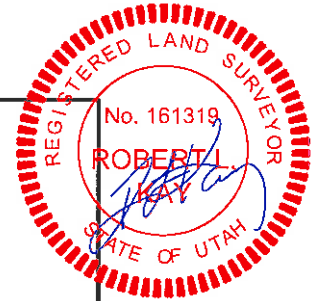
**BILL BARRETT CORPORATION**  
TYPICAL RIG LAYOUT FOR  
#14-7D-36 BTR  
SECTION 7, T3S, R6W, U.S.B.&M.  
744' FSL 776' FWL

**FIGURE #3**

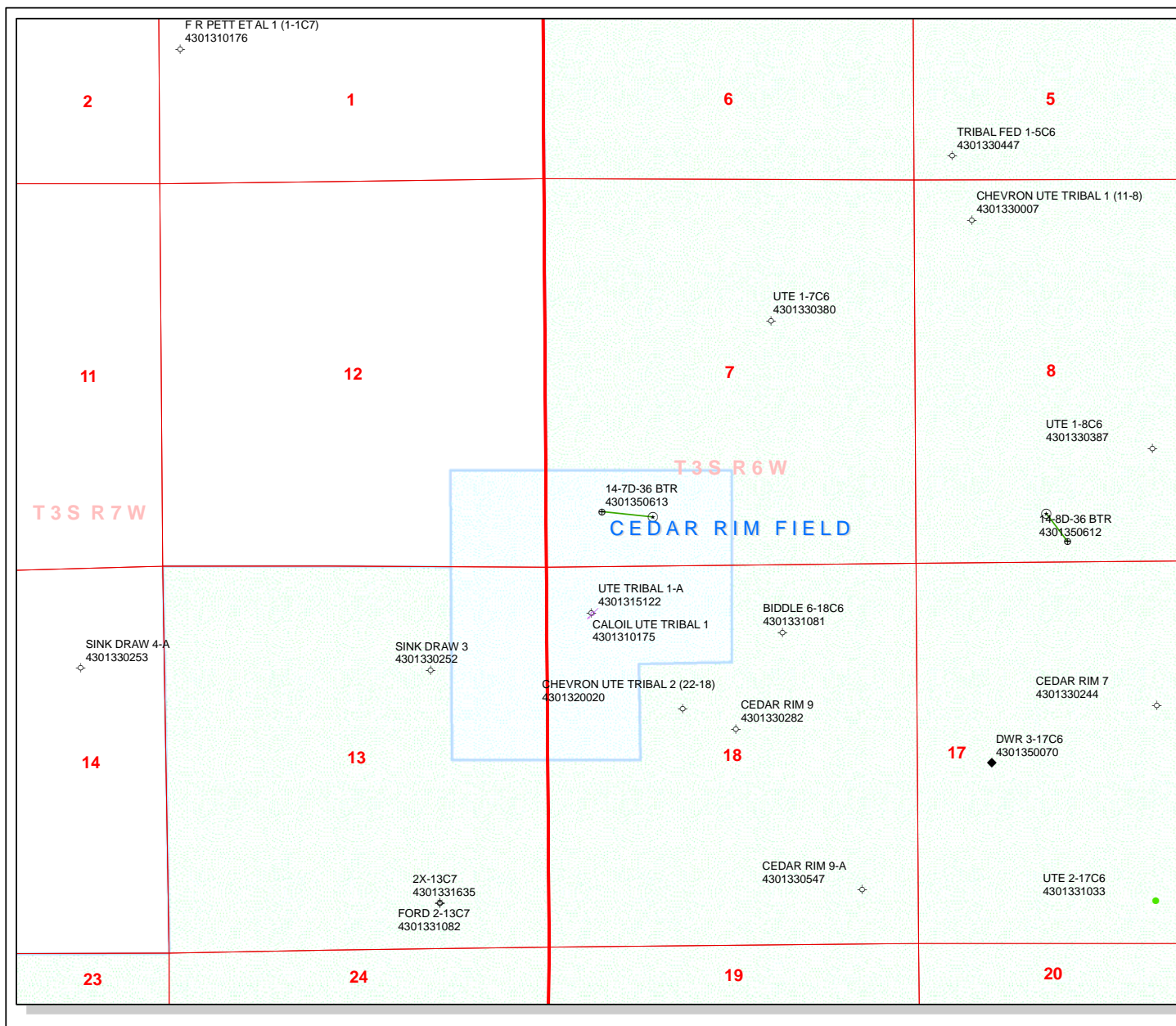


SCALE: 1" = 60'  
DATE: 12-14-09  
DRAWN BY: C.H.  
REV: 08-30-10

**NOTE:**  
Flare Pit is to  
be located a min.  
of 100' from the  
Well Head.

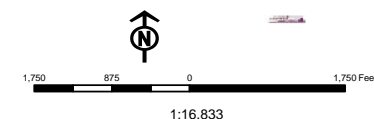
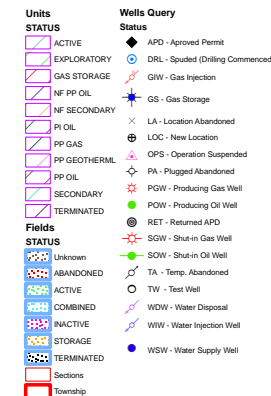


**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



**API Number: 4301350613**  
**Well Name: 14-7D-36 BTR**  
**Township T0.3 . Range R0.6 . Section 07**  
**Meridian: UBM**  
**Operator: BILL BARRETT CORP**

Map Prepared:  
 Map Produced by Diana Mason





# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

<b>Operator</b>	BILL BARRETT CORP				
<b>Well Name</b>	14-7D-36 BTR				
<b>API Number</b>	43013506130000	<b>APD No</b>	3498	<b>Field/Unit</b>	CEDAR RIM
<b>Location: 1/4,1/4</b>	SWSW	<b>Sec 7</b>	<b>Tw 3.0S</b>	<b>Rng 6.0W</b>	744 FSL 776 FWL
<b>GPS Coord (UTM)</b>	533052	4453030	<b>Surface Owner</b>	Gary Stringham/Little Red Creek Cattle Company, LLC	

**Participants**

James Hereford (BLM), Kary Eldredge (Bill Barrett), Don Hamilton (Buys and Associates), Trevor Anderson (UELS), Matt Serfustini (Environmental Industrial Services, Richard Powell (DOGM), Gary Stringham (land owner)

**Regional/Local Setting & Topography**

This location sits a gradual northeast facing slope. The proposed location is only gently sloped and crosses no drainages. Above location to the southwest is a low lying ridge covered with Pinion and Juniper with exposed rock outcroppings. Below the location to the northeast approximately 0.2 miles is Rabbit Gulch, the primary drainage for this region. Rabbit Gulch flows southeast where it drains into Starvation Reservoir approximately 5 to 6 miles away. Duchesne, UT is approximately 13 miles to the south east.

**Surface Use Plan****Current Surface Use**

Grazing  
Deer Winter Range  
Wildlife Habitat

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0.5	<b>Width 270 Length 375</b>	Onsite	UNTA

**Ancillary Facilities Y**

Trailers will be parked on location to provide temporary housing for personel employed in the drilling operations.

**Waste Management Plan Adequate?** Y

**Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

**Flora / Fauna**

Deer, elk, cougars, coyote, raptors, rodents, rabbits, song birds  
Scattered grasses, prickly pear, sage brush, rabbit brush

**Soil Type and Characteristics**

Sandy clay loam, moderate permeability

**Erosion Issues** N

**Sedimentation Issues** N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N

**Reserve Pit****Site-Specific Factors****Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	10 to 20	5

**Affected Populations**

<b>Presence Nearby Utility Conduits</b>	Not Present	0
---	-------------	---

**Final Score** 20 1 Sensitivity Level**Characteristics / Requirements**

The reserve pit is to be 100ft wide by 200ft long and 8ft deep with a volume of 16,830 bbls. The reserve will be placed in cut and there do not appear to be any stability issues. According to Kary Eldredge Bill Barrett will use a 16 mil liner along with a felt subliner.

**Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y****Other Observations / Comments**

New well access road will following an existing well used two track road. The existing road will be rerouted around the northeast side of the location.

Richard Powell

**Evaluator**

3/22/2011

**Date / Time**

# Application for Permit to Drill Statement of Basis

4/14/2011

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
3498	43013506130000	LOCKED	OW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>	Gary Stringham/Little Red Creek Cattle Company, LLC	
<b>Well Name</b>	14-7D-36 BTR		<b>Unit</b>		
<b>Field</b>	CEDAR RIM		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWSW 7 3S 6W U 744 FSL 776 FWL GPS Coord (UTM) 533057E 4453026N				

**Geologic Statement of Basis**

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill  
**APD Evaluator**

4/14/2011  
**Date / Time**

**Surface Statement of Basis**

The surface owner of this location is Gary Strigham / Little Red Creek Cattle Company. Mr. Stringham expressed no concerns with this location in particular but expressed his desire that Bill Barrett and other oil companies operating in the area would develop water for wild life use in the region. Mr. Stringham informed us that he had lost approximately 300 tons of hay to elk during the winter and feels the oil field development is partially responsible by chasing wildlife off from winter range.

James Hereford of the BLM stated no concerns with drilling at this location. It appears to be a good site for a well and the layout plan appears to be well suited for this site.

Richard Powell  
**Onsite Evaluator**

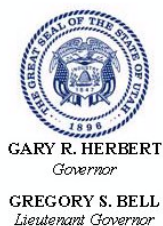
3/22/2011  
**Date / Time**

**Conditions of Approval / Application for Permit to Drill**

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 3/1/2011**API NO. ASSIGNED:** 43013506130000**WELL NAME:** 14-7D-36 BTR**OPERATOR:** BILL BARRETT CORP (N2165)**PHONE NUMBER:** 303 293-9100**CONTACT:** Elaine Winick**PROPOSED LOCATION:** SWSW 07 030S 060W**Permit Tech Review:** ☒**SURFACE:** 0744 FSL 0776 FWL**Engineering Review:** ☐**BOTTOM:** 0660 FSL 1480 FWL**Geology Review:** ☒**COUNTY:** DUCHESNE**LATITUDE:** 40.22891**LONGITUDE:** -110.61145**UTM SURF EASTINGS:** 533057.00**NORTHINGS:** 4453026.00**FIELD NAME:** CEDAR RIM**LEASE TYPE:** 2 - Indian**LEASE NUMBER:** 2OG0005608**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER-WASATCH**SURFACE OWNER:** 4 - Fee**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**☒ **PLAT**☒ **Bond:** INDIAN - LPM8874725☐ **Potash**☐ **Oil Shale 190-5**☐ **Oil Shale 190-3**☐ **Oil Shale 190-13**☒ **Water Permit:** Duchesne City Culinary Water Dock☐ **RDCC Review:**☒ **Fee Surface Agreement**☐ **Intent to Commingle****Commingle Approved****LOCATION AND SITING:**☐ **R649-2-3.****Unit:**☐ **R649-3-2. General**☐ **R649-3-3. Exception**☒ **Drilling Unit****Board Cause No:** Cause 139-84**Effective Date:** 12/31/2008**Siting:** 660' Fr Drl U Bdry & 1320' Other Wells☒ **R649-3-11. Directional Drill****Comments:** Presite Completed**Stipulations:**  
4 - Federal Approval - dmason  
5 - Statement of Basis - bhll  
15 - Directional - dmason



## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** 14-7D-36 BTR  
**API Well Number:** 43013506130000  
**Lease Number:** 2OG0005608  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 4/14/2011

**Issued to:**

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

*Original*  
*Secured 3/11*  
**MAY 24 2011**

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 20G0005608
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BILL BARRETT CORPORATION Contact: ELAINE WINICK E-Mail: ewinick@billbarrettcorp.com		7. If Unit or CA Agreement, Name and No.
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		8. Lease Name and Well No. 14-7D-36 BTR
3b. Phone No. (include area code) Ph: 303-312-8168 Fx: 303-291-0420		9. API Well No. 43-013-50613
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSW 744FSL 776FWL At proposed prod. zone SESW 660FSL 1480FWL		10. Field and Pool, or Exploratory ALTAMONT
14. Distance in miles and direction from nearest town or post office* 14.7 MILES NW OF DUCHESNE, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 7 T3S R6W Mer UBM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 2476	16. No. of Acres in Lease 66101.00	12. County or Parish DUCHESNE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 2380	19. Proposed Depth 11286 MD 11225 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6261 GL	22. Approximate date work will start 07/01/2011	17. Spacing Unit dedicated to this well 640.00
		20. BLM/BIA Bond No. on file LPM8874725
		23. Estimated duration 60 DAYS (D&C)

**24. Attachments**

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) ELAINE WINICK Ph: 303-312-8168	Date 03/02/2011
Title SENIOR PERMIT ANALYST		
Approved by (Signature) <i>Elaine Winick</i>	Name (Printed/Typed) <i>Elaine Winick</i>	Date JUL 21 2011
Title Assistant Field Manager acting Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #103552 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal

**UDOGM**

**NOTICE OF APPROVAL**

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

**CONDITIONS OF APPROVAL ATTACHED**

11-57529AF

11-57529AF

**RECEIVED**

**AUG 15 2011**

**DIV. OF OIL, GAS & MINING**



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Bill Barrett Corporation  
Well No: 14-7D-36 BTR  
API No: 43-013-50613

Location: SWSW, Sec. 7, T3S, R6W  
Lease No: 2OG0005608  
Agreement: N/A

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

- Any deviation of submitted APD's, which includes BBCs surface use plan, and ROW applications the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.
- The operator will implement "Safety and Emergency Plan." The operator's safety director will ensure its compliance.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COAs, and ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- Wood shall be saved per the surface owner's recommendations piled up around well pad and along access roads. Wood from the locations can also be used for reclamation purposes.
- Production facilities will be painted Beetle Green on all locations to blend in with the surrounding habitat.
- Section of road to be upgraded needs to have gravel applied to it too lessen the chance of erosion on the hill. Also, crown and ditched to divert any runoff down the hill also wing ditches or culverts at the bottom to take flow away from the road itself.
- 6 inches of topsoil must be saved from the sites being disturbed for reclamation purposed only. Topsoil pile should be separated from the subsoil's and stored so topsoil is not affected by erosional forces. Piles higher than 8 feet are not recommended.
- Site reclamation would be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Roads and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact surface owner or the BLM for possible seed mixes to use in the project area. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- A CBL shall be run from TD to Surface on the production casing.
- Gamma Ray Log shall be run from TD to Surface.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth

(from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if



performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 2OG0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 14-7D-36 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0744 FSL 0776 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 07 Township: 03.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506130000
<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM		<b>COUNTY:</b> DUCHESNE
<b>STATE:</b> UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/28/2011  <input type="checkbox"/> DRILLING REPORT Report Date:	<b>TYPE OF ACTION</b>  <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input type="checkbox"/> APD EXTENSION           OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This well was spud on 11/28/2011 at 1:00 pm by Triple A Drilling.		
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher		<b>PHONE NUMBER</b> 303 312-8172
<b>SIGNATURE</b> N/A		<b>TITLE</b> Senior Permit Analyst
<b>DATE</b> 11/29/2011		





<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 14-7D-36 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0744 FSL 0776 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 07 Township: 03.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506130000
<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM		<b>COUNTY:</b> DUCHESNE
<b>STATE:</b> UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/28/2011  <input type="checkbox"/> DRILLING REPORT Report Date:	<b>TYPE OF ACTION</b>  <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input type="checkbox"/> APD EXTENSION           OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This well was spud on 11/28/2011 at 1:00 pm by Triple A Drilling.		
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher		<b>PHONE NUMBER</b> 303 312-8172
<b>SIGNATURE</b> N/A		<b>TITLE</b> Senior Permit Analyst
<b>DATE</b> 11/29/2011		

Sundry Number: 20728 API Well Number: 43013506130000



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 14-7D-36 BTR
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 0744 FSL 0776 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 07 Township: 03.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506130000
<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM		<b>COUNTY:</b> DUCHESNE
<b>STATE:</b> UTAH		
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/30/2011	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> <input style="width: 100px;" type="text"/>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  Well was spud in November 2011.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/5/2011	

## BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# Triple A Drilling  
Submitted By Venessa Langmach Phone Number 303-312-8172  
Well Name/Number 14-7D-36 BTR  
Qtr/Qtr sWSW Section 7 Township 3S Range 6W  
Lease Serial Number 2OG0005608  
API Number 4301350613

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 11/26/2011 8:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing  
☐ Intermediate Casing  
☐ Production Casing  
☐ Liner  
☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

RECEIVED

NOV 22 2011

DIV. OF OIL, GAS &amp; MINING

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_  
\_\_\_\_\_

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Bill Barrett Corporation Operator Account Number: N 2165  
Address: 1099 18th Street, Suite 2300  
city Denver  
state CO zip 80202 Phone Number: (303) 312-8172

**Well 1**

API Number	Well Name	QQ	Sec	Twp	Rng	County
4301350756	5-32D-36 BTR	SWNW	32	3S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
A	99999	18328	11/25/2011	11/30/11		
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 10:00 am. <u>GR-WS</u> <u>BHL=SWNW</u>						

**Well 2**

API Number	Well Name	QQ	Sec	Twp	Rng	County
4301350921	6-32-36 BTR SWD	SENW	32	3S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
A	99999	18329	11/27/2011	11/30/11		
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 11:00 am. <u>GRRV</u>						

**Well 3**

API Number	Well Name	QQ	Sec	Twp	Rng	County
4301350613	14-7D-36 BTR	SWSW	7	3S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
A	99999	18330	11/28/2011	11/30/11		
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 1:00 pm. <u>GR-WS</u> <u>BHL=SESW</u>						

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

**RECEIVED**

NOV 30 2011

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

Title

11/29/2011

Date

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>  
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 14-7D-36 BTR
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 0744 FSL 0776 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 07 Township: 03.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506130000
<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM		<b>COUNTY:</b> DUCHESNE
<b>STATE:</b> UTAH		
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 12/31/2011	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER</b>	
	OTHER: <input style="width: 100px;" type="text"/>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  No December 2011 drilling activity to report.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/5/2012	

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp. Rig Name/# Patterson Rig 506  
Submitted By Pat Clark Phone Number 435-828-6095  
Well Name/Number 14-7D-36 BTR  
Qtr/Qtr SW/SW Section 7 Township 3S Range 6W  
Lease Serial Number 20G005608  
API Number 43-013-50613

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 01/18/2012 7:00 AM ☒ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

**RECEIVED**

**JAN 16 2012**

DIV. OF OIL, GAS & MINING

Date/Time 01/19/2012 12:00 AM ☐ PM ☒

Remarks Estimated date and time based on current conditions.

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp. Rig Name/# Patterson Rig 506  
Submitted By Pat Clark Phone Number 435-828-6095  
Well Name/Number 14-7D-36 BTR  
Qtr/Qtr SW/SW Section 7 Township 3S Range 6W  
Lease Serial Number 20G005608  
API Number 43-013-50613

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 01/20/2012 10:00 AM ☐ PM ☒

BOPE

- ☒ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

**RECEIVED**

**JAN 20 2012**

**DIV. OF OIL, GAS & MINING**

Date/Time 01/21/2012 22:00 AM ☐ PM ☒

Remarks Estimated date and time based on current conditions.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: 14-7D-36 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013506130000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. FIELD and POOL or WILDCAT: CEDAR RIM
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0744 FSL 0776 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 07 Township: 03.0S Range: 06.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/31/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

January 2012 Monthly Drilling Report attached.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 February 06, 2012

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 2/6/2012

**14-7D-36 BTR 1/4/2012 06:00 - 1/5/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RD rig and prepare rig and equipment for move to new location. Move man camps and utilities. Inspect BHA. Prep and winterize back yard for move. Prep to lower derrick and move backyard equipment.
18:00	12.00	06:00	21	WAIT ON DAYLIGHT	Wait on daylight to continue rig move and teardown.

**14-7D-36 BTR 1/5/2012 06:00 - 1/6/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RD rig. Move out backyard, mud pits and all pipe tubs. Inspect BHA. Move bottom half of sub. Had problems with thawing ground. Brought in 3 loads rock to spread on location. MI boiler, doghouse, fuel tank and generator house.
18:00	12.00	06:00	21	DERRICK MAINTENANCE/WAIT ON DAYLIGHT	Patterson has welders working on derrick (installing padeyes).

**14-7D-36 BTR 1/6/2012 06:00 - 1/7/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	Finish x inspect work on derrick. Move remainder of equipment to new location. Inspection revealed cracking in subbase. Welders repaired per Patterson engineer directions. Note: welders were Patterson contractors.
18:00	12.00	06:00	21	WAITING ON DAYLIGHT/CERTIFY WELDS	Welder conducting magnaflux inspection of welds on sub. Welds certified.

**14-7D-36 BTR 1/7/2012 06:00 - 1/8/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	17.00	23:00	1	RIGUP & TEARDOWN	Raise derrick. RU floor. RU backyard including pumps, boiler, premix tank, barite bin, fuel tank and generator house. Conduct Patterson safety inspection per Patterson requirement. Break tour at 18:00 hrs. Take on fresh water. Load mud pits with water. Prep spud mud.
23:00	2.50	01:30	20	DIRECTIONAL WORK	PU bit, motor and directional tools. Tag at 96'.
01:30	1.50	03:00	2	DRILL ACTUAL	Spud well at 0420 hours. Drill from 96' to 132'.

**14-7D-36 BTR 1/8/2012 06:00 - 1/9/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill from 132' to 135'. Orient directional tools. Drill from 135' to 326'.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service.
18:00	12.00	06:00	2	DRILL ACTUAL	Drill from 326' to 693'.

**14-7D-36 BTR 1/9/2012 06:00 - 1/10/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Drill from 693' to 999'.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig service.
17:00	12.50	05:30	2	DRILL ACTUAL	Drill/slide from 999' to 1295'. 6 slides, 81' total, 3.77 hrs. Slide ROP - 21.5 fph.

**14-7D-36 BTR 1/10/2012 06:00 - 1/11/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	2	DRILL ACTUAL	Drill/slide from 1295' to 1379'. MWD is not responding nor providing tool face information. Bit stopped drilling.
10:00	0.50	10:30	7	LUBRICATE RIG	Rig service. Circ BU while servicing rig.
10:30	2.50	13:00	6	TRIPS	Slug pipe and TOO H to change bit, motor and MWD. MWD landing ring washed out. Bit is 1/2" undergauge with worn/damaged/missing cutters on each cone.
13:00	3.00	16:00	20	DIRECTIONAL WORK	Change out bit, bit sub/crossover, motor, 1 - NM drill collar and index sub. Replace MWD tool and mounting equipment. Orient/scribe directional tools.
16:00	4.00	20:00	6	TRIPS	TIH with new BHA. Tight hole from 450' to TD. WxR 50% of connections to TD.
20:00	0.50	20:30	2	DRILL ACTUAL	Drill from 1379' - 1386'. Hole taking mud.
20:30	1.00	21:30	5	COND MUD & CIRC	Build volume and increase LCM to heal hole. Circ at SPR/idle. Slowly increase pump rate while monitoring losses. Lost approx 200 bbls.
21:30	4.00	01:30	2	DRILL ACTUAL	Drill from 1386' to 1400'. Bit not drilling. Mixed fine and coarse sandstone in returns. Intermittent problems in communication with MWD. Hole taking fluid. Lost approx 25 bbls. Increasing LCM content.
01:30	4.50	06:00	6	TRIPS	Slug pipe and TOO H to change bit and motor. Bit worn flat on bottom (21' of hole made). Hole taking fluid while TOO H. Est 125 bbls lost in trip.

**14-7D-36 BTR 1/11/2012 06:00 - 1/12/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	6	TRIPS	TIH with new bit x motor. Hole condition good.
08:30	6.00	14:30	2	DRILL ACTUAL	Drill from 1400' to 1409'. Drill/slide from 1409' to 1504'.
14:30	0.50	15:00	7	LUBRICATE RIG	Rig service.
15:00	15.00	06:00	2	DRILL ACTUAL	Drill/slide from 1504' to 1830'. Hole stable with minor seepage losses.

**14-7D-36 BTR 1/12/2012 06:00 - 1/13/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Drill/slide from 1830' to 1856'. Lost full returns.
08:00	4.50	12:30	5	COND MUD & CIRC	PU drill string. SD 1 pump and idle second pump. Mix and pump multiple LCM pills.
12:30	0.50	13:00	2	DRILL ACTUAL	Drill/Slide 1856' - 1868'. Lost returns.
13:00	17.00	06:00	5	COND MUD & CIRC	Mix and pump LCM Pills. L/D 3 jts, continue w/ LCM pills @ 50 vis, 35% LCM. Pumped pills down DP and backside

**14-7D-36 BTR 1/13/2012 06:00 - 1/14/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	5	COND MUD & CIRC	Mix and pump LCM sweeps @ 60 vis, 35% LCM.
08:00	0.50	08:30	6	TRIPS	Short trip 5 stds - hole stable.
08:30	2.00	10:30	10	DEVIATION SURVEY	P/U 3 singles to get back to bottom, take survey.
10:30	2.00	12:30	5	COND MUD & CIRC	Pull 1 std, spot 60 vis, 40% LCM pill.
12:30	5.50	18:00	6	TRIPS	Toh, l/d directional tools, Replace shock sub, bit (1/4" out of guage). Tih.
18:00	0.50	18:30	3	REAMING	Ream 90' to bottom, full returns w/350 GPM.
18:30	11.50	06:00	2	DRILL ACTUAL	Drill 1868' - 2069'. Lost returns @ 1872', drilling w/no returns.

**14-7D-36 BTR 1/14/2012 06:00 - 1/15/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.50	12:30	2	DRILL ACTUAL	Drill 2069' - 2152' w/no returns.
12:30	0.50	13:00	7	LUBRICATE RIG	Rig Service.
13:00	7.00	20:00	2	DRILL ACTUAL	Drill 2152' - 2237'. Bit torquing excessively, dp spikes.
20:00	4.00	00:00	5	COND MUD & CIRC	Pump 60 vis, 40% LCM pill, pull 5 stds, pump 60 vis, 40% LCM pill, pump dry job.
00:00	2.00	02:00	6	TRIPS	TOH. Shock sub twisted off @ polished mandrel. Left 7.11' of shock sub, 32.02' MM, bit in hole.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
02:00	4.00	06:00	19	FISHING	Wait on fisherman.

**14-7D-36 BTR 1/15/2012 06:00 - 1/16/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00		06:00			

**14-7D-36 BTR 1/16/2012 06:00 - 1/17/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	21	OPEN	Welder modified Bit Breaker
08:00	2.00	10:00	6	TRIPS	TIH W/Bit # 5, BHA # 6 to 1850'.
10:00	1.50	11:30	3	REAMING	Wash & Ream 1850' - 1900'. Full returns. Swivel packing leaking.
11:30	4.50	16:00	8	REPAIR RIG	Replace swivel packing & wash pipe.
16:00	4.50	20:30	3	REAMING	W&R 1900' - 2237'. Lost full returns @ 2150'.
20:30	9.50	06:00	2	DRILL ACTUAL	Drill 2237' - 2398' without returns. 15-25k wob, 40 rpm, 650 - 700 gpm @ 17 fph.

**14-7D-36 BTR 1/17/2012 06:00 - 1/18/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	2	DRILL ACTUAL	Drill 2398' - 2404' without returns.
09:00	3.50	12:30	5	COND MUD & CIRC	Pump & displace 80 bbl, 60 vis, 40% LCM pill, pull 5 stands (1936') pump and displace same pill configuration.
12:30	2.00	14:30	6	TRIPS	TOH.
14:30	8.50	23:00	6	TRIPS	Break bit, L/D MM. P/U HTC insert bit, straighten 9 5/8" MM(3/4 lobe, 6 stage .22 rpg), 9 1/2" shock sub, TIH.
23:00	7.00	06:00	2	DRILL ACTUAL	Drill without returns 2404' - 2473'. Wob - 25-30k, rpm 40/143, spp 1300 psi, dp 200 psi, rop 10 fph.

**14-7D-36 BTR 1/18/2012 06:00 - 1/19/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	2	DRILL ACTUAL	Drill without returns 2473' - 2600', got full returns. Drill 2600' - 2805'. Wob 35-45k, rpm 40/143, spp 1400 psi, dp 200 psi, rop 28 fph.
18:00	2.00	20:00	10	DEVIATION SURVEY	Circulate hole clean. R/U Vaughn Energy , run gyro f/2700' to 1800', tie in to last mwd survey @ 1796'.
20:00	10.00	06:00	2	DRILL ACTUAL	Drill 2805' - 3050'. Full returns, same parameters. ROP - 25 fph.

**14-7D-36 BTR 1/19/2012 06:00 - 1/20/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	2	DRILL ACTUAL	Drill 3050' - 3447'. wob 40 - 60k, rpm 35-65, spp 1600 psi, dp 150-200 psi, rop 17 fph.

**14-7D-36 BTR 1/20/2012 06:00 - 1/21/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Drill 3447' - 3595'. TD surface. Wob 40-60k, rpm 40-55/150, spp 1700 psi, dp 150 psi, rop - 15 fph.
16:00	7.00	23:00	6	TRIPS	Circ BU, 5 st ST. Circ hole volume, spot LCM pill, TOOHP pipe using spinners. L/D MM, shock sub, reamers.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
23:00	7.00	06:00	12	RUN CASING & CEMENT	HSM.R/U casers, run 80 jts 10 3/4", 45.5#, J-55, BTC csng. Shoe @ 3594', Float collar @ 3548'. Tag bottom @ 3595' @ 05:45. Start circulating. Had flow on every jt run. Regulatory agencies notified of csg and cmt job 1/20/2012 @ 05:51.

**14-7D-36 BTR 1/21/2012 06:00 - 1/22/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	5	COND MUD & CIRC	Circulate BU X 2. Full returns.
08:30	5.00	13:30	12	RUN CASING & CEMENT	Hsm. R/U Halliburton and pump cement as follows: Pump 20 bbls fresh spacer, 40 bbls Super Flush, 20 bbls fresh spacer. Mix and pump 597 bbls(1092 sx)lead light premium cmt @ 11 ppg, 3.16 yld, 19.48 gps h2o. Mix and pump 97 bbls(410 sx) tail premium plus cmt @ 14.8 ppg, 1.33 yld, 6.31 gps @ 5 bpm. Pressures sporadic, as were returns. Had 2-3 bbls lead to surface. Shut down, drop top plug, displace w/ 341 bbls mud. Max pressure 285 psi, bump plug to 1150 psi, floats held.
13:30	6.00	19:30	13	WAIT ON CEMENT	W.O.C. Mixing pump on cmt truck went down, W.O. new truck.
19:30	2.50	22:00	12	RUN CASING & CEMENT	Ran 200' 1" pipe into annulus. Top job # 1 - Pump 101 sx (21 bbls) cmt @ 15.8 ppg w/2% cacl. Dropped 2", wait 1 hour, cement still in place.
22:00	4.00	02:00	13	WAIT ON CEMENT	W.O.C.
02:00	4.00	06:00	14	NIPPLE UP B.O.P	Raise riser, Cut off csg, l/d riser and cutoff jt. Weld on 11", 5000# X 10 3/4" SOW casinghead.

**14-7D-36 BTR 1/22/2012 06:00 - 1/23/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	14	NIPPLE UP B.O.P	Prep and place casing head, weld and test same.
11:00	3.00	14:00	14	NIPPLE UP B.O.P	NUBOPE.
14:00	4.50	18:30	15	TEST B.O.P	R/U A-1 testers and test BOPE as follows:Pipe and blind rams, floor valves, kelly valves, choke and kill lines, hcr and side outlet valves to 5000 psi f/10 min. Test annular preventer to 1500 psi f/10 min. Test 10 3/4" csg to 1500 psi f/30 min. R/D tester.
18:30	2.50	21:00	6	TRIPS	Install wear bushing. P/U bit, mm, nmhc, nm index sub, nm antenna sub, nmhc, stand in derrick.
21:00	3.00	00:00	10	DEVIATION SURVEY	R/U Vaughn Energy, run gyro f/3520' - surface. R/D Vaughn.
00:00	3.00	03:00	6	TRIPS	Install MWD, scribe mm, tih.
03:00	2.50	05:30	8	REPAIR RIG	Work on thawing blocks, frozen valve. Hook load not reading - work on Pason.
05:30	0.50	06:00	21	OPEN	Kelly up, break circ, tag cmt @ 3540'.Start drilling cmt and flt equip.

**14-7D-36 BTR 1/23/2012 06:00 - 1/24/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	2	DRILL ACTUAL	Drill cem and Float equip. FC @ 3548', FS @ 3594'. No cmt in shoe track. Drill to 3615', spot 40 bbl gel/lcm pill. pull into csg, close annular, attempt to test to 470 psi f/11 ppg EMW, wouldn't hold(bled back to 85 psi). Pump 80 bbl gel/lcm pill, try again same results.
12:00	5.00	17:00	6	TRIPS	Circ hole clean, pump dry job, toh to run cem retainer.
17:00	3.50	20:30	21	OPEN	Wait on cmt retainer.
20:30	3.50	00:00	6	TRIPS	P/U cem retainer, TIH. Set retainer @ 3406'.
00:00	6.00	06:00	18	SQUEEZE CEMENT	HSM. R/U Halliburton. Try to pressure test lines, truck won't test. Wait on new pump truck or mechanic.

**14-7D-36 BTR 1/24/2012 06:00 - 1/25/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	18	SQUEEZE CEMENT	Wait on new pump truck.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	7.50	17:30	18	SQUEEZE CEMENT	HSM. R/U new truck, squeeze as follows: test DP and Csg, establish PIR w/1bpm -142 , isip 108, 10 min 27; PIR 1/2 bpm - 152, isip 144, 10 min 75; PIR .4 bpm - 158, isip 148, 10 min 82; mix and pump 1000 gal Flo-Check, 10 bbls fresh, 300 sx cmt @ 15.8 ppg, 1.15 yld. Displace 100 sx(20.5 bbls) past shoe @ 2 bpm, 50 sx(10.25 bbls) past shoe @ 1 bpm, 78 sx(16 bbl) past shoe @ .4 bpm. Stage 1 bbl after 4 minute shutdowns 4 times, final pressure 298 psi. Sting out and reverse dp clean.
17:30	3.00	20:30	6	TRIPS	Toh, L/D Squeeze tools.
20:30	9.50	06:00	13	WAIT ON CEMENT	Wait on cement.

**14-7D-36 BTR 1/25/2012 06:00 - 1/26/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	13	WAIT ON CEMENT	Wait on cmt.
08:00	3.00	11:00	6	TRIPS	Tih w/ milltooth bit. Tag retainer @ 3406'.
11:00	3.00	14:00	21	OPEN	Drill cem retainer( chase to 3490' after drilling slips off).
14:00	6.50	20:30	21	OPEN	Drill cement , rathole, 10' new hole 3490' - 3625'. FIT to 371 psi f/11 ppg emw.
20:30	9.50	06:00	2	DRILL ACTUAL	Drill 3625' - 3822. wob 35k, rpm 45/156, spp 1650 psi, dp 100 psi, rop 21 fph.

**14-7D-36 BTR 1/26/2012 06:00 - 1/27/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	2	DRILL ACTUAL	Drill 3822' - 3918'. wob 30-35k, 650 gpm, rpm 35-55/153, spp 1650 psi, dp 100 psi, rop 17 fph. Mix and pump dry job.
11:30	3.00	14:30	6	TRIPS	TOH. L/D mm and bit.
14:30	0.50	15:00	7	LUBRICATE RIG	Rig service. F/T blind rams. BOP drill.
15:00	0.50	15:30	3	REAMING	Ream from 3853' - 3918'.
15:30	12.00	03:30	2	DRILL ACTUAL	Drill/slide from 3918' to 4361'. Conducted BOP drill at 4329'. F/T pipe rams at 4329'. Hole taking mud while drilling. Lost approx 200 bbls overnight. Bringing LCM to 10%.

**14-7D-36 BTR 1/27/2012 06:00 - 1/28/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/slide from 4361' to 4614'. SPR @ 4582'. Building angle per plan.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service. Conduct BOP drill. F/T pipe rams.
18:00	12.00	06:00	2	DRILL ACTUAL	Drill/slide from 4614' to 4931'. Slide 14' - 20' every kelly for build section per plan. BOP drill at 4900'. F/T pipe rams. SPR at 4868'.

**14-7D-36 BTR 1/28/2012 06:00 - 1/29/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Drill/slide in build section from 4931' to 5154'. SPR @ 5122'.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service. BOP drill. F/T pipe rams.
17:00	13.00	06:00	2	DRILL ACTUAL	Drill/slide from 5154' to 5424'. Conduct BOP drill and F/T pipe rams @ 5250'. Still building angle to meet plan. Will need to get to 17 deg. Maintaining 30% LCM in system. Shakers bypassed. SPR @ 5249'. Have 8-3/4" bits and 6-3/4" tools on location. Will run smaller bit on next bit trip.

**14-7D-36 BTR 1/29/2012 06:00 - 1/30/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 5,985.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	2	DRILL ACTUAL	Drill/slide from 54254' to 5534'. Bit stopped drilling, high differential spikes.
11:00	3.00	14:00	5	COND MUD & CIRC	Pump sweep. Circ BU. Load pipe with clean mud. Slug pipe and prep to TOO H to change to 8-3/4" bit and smaller tools. Pump pressures not correct while circ and pumping slug. Check system for leaks, etc.



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:00	0.50	14:30	6	TRIPS	Pull 3 stands while checking circulating system.
14:30	5.50	20:00	21	CLEAN PITS/PUMPS	Go thru both pumps including suction and discharge lines. LCM packed off in suction lines. Two suction valves cut by solids/LCM. Clean mud pits. Build volume. Check pumps - working ok. Circ across wellhead.
20:00	0.50	20:30	6	TRIPS	Continue out of hole to change bit and BHA. Hit tight spot at 4130'. Work pipe. Unable to go up or down. Work pipe down and PU Kelly.
20:30	4.00	00:30	5	COND MUD & CIRC	W x R and work pipe while circ hole. Circ BU. No shale evident. Begin adding polymer to mud while circ and continuing to work pipe. Bring MW to 9.0 ppg while bringing LCM back to 30%. Work pipe up while circulating. Broke thru tight spot. LD two additional joints. Pipe free. Kelly up and pump 60 bbl slug of clean mud.
00:30	3.00	03:30	6	TRIPS	POOH to change bit. Work thru several tight spots between 3900' and surface shoe. LD 8" DC's, directional tools, MM and bit. PU new bit and tools at report time.

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp. Rig Name/# Patterson Rig 506  
Submitted By Pat Clark Phone Number 435-828-6095  
Well Name/Number 14-7D-36 BTR  
Qtr/Qtr SW/SW Section 7 Township 3S Range 6W  
Lease Serial Number 20G005608  
API Number 43-013-50613

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☒ Production Casing
- ☐ Liner
- ☐ Other

RECEIVED

FEB 12 2012

DIV. OF OIL, GAS & MINING

Date/Time 2/13/2012 22:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks Estimated date and time based on current conditions.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: 14-7D-36 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013506130000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. FIELD and POOL or WILDCAT: CEDAR RIM
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0744 FSL 0776 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 07 Township: 03.0S Range: 06.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/1/2012			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

February 2012 monthly drilling activity report attached.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 March 06, 2012

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 3/5/2012

**14-7D-36 BTR 2/1/2012 06:00 - 2/2/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	21	LOST RETURNS	Pump x displace pill #5. Sporadic returns in the form of a trickle. Check MW out - 9.1 ppg w/35% - 40% LCM.
11:00	1.00	12:00	6	TRIPS	Build slug x TOO H to surface shoe (TOOH to 3576'). While TOO H, drill string was swabbing hole. Had gain of approx 1.5 bbl/stand. Mud was fluffy and contaminated. Unable to measure vis, MW 9.0 - 9.1. Tested for cement contamination and chlorides. No cement. Chlorides normal. No indications of water flow or cement contamination. Checking for lime contamination from drilling the limestone. None apparent.
12:00	5.00	17:00	5	COND MUD & CIRC	C x C mud in hole and active system. Stabized entire system with 8.9 ppg/47 vis/18% LCM in and 8.9 ppg/45 vis/18% LCM out. Load drill string with clean mud.
17:00	0.50	17:30	6	TRIPS	TIH with 5 std + 1 single.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service.
18:00	3.00	21:00	5	COND MUD & CIRC	C x C mud and hole. Full returns at 4024'. Check mud for lime contamination. No contamination. Mud condition good coming from hole. Adjust weight, vis and LCM %.
21:00	1.00	22:00	6	TRIPS	TIH to 4875'.
22:00	2.50	00:30	5	COND MUD & CIRC	C x C mud and hole. Level out mud. No contaminated mud.
00:30	1.00	01:30	6	TRIPS	TIH and tag bottom.
01:30	1.50	03:00	5	COND MUD & CIRC	Circ BU. Mud condition good. Adjust LCM %.
03:00	1.00	04:00	2	DRILL ACTUAL	Drill/slide from 5966' to 5985'. Measure SPR's.

**14-7D-36 BTR 2/2/2012 06:00 - 2/3/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Drill/slide from 5985' to 6334'.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig service. BOP drill. F/T pipe rams. SPR's at 6364'.
17:00	13.00	06:00	2	DRILL ACTUAL	Drill/slide from 6334' to 6760'. SPR @ 6683'. BOP drill. F/T annular.

**14-7D-36 BTR 2/3/2012 06:00 - 2/4/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	2	DRILL ACTUAL	Drill/slide from 6760' to 7095'. Holding angle per plan.
15:00	0.50	15:30	7	LUBRICATE RIG	Rig service. Conduct BOP drill. Take SPR. F/T pipe rams.
15:30	14.50	06:00	2	DRILL ACTUAL	Drill/slide from 7095' to 7552'. Conduct BOP drill. F/T pipe rams.

**14-7D-36 BTR 2/4/2012 06:00 - 2/5/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Drill/slide from 7552' to 7888'.
15:30	0.50	16:00	7	LUBRICATE RIG	Rig service. BOP drill. F/T pipe rams. Take SPR.
16:00	3.00	19:00	2	DRILL ACTUAL	Drill/slide from 7888' to 8047'. Drag trend increasing with 70K plus. BOP drill. F/T pipe rams.
19:00	1.50	20:30	5	COND MUD & CIRC	Survey hole. Pump sweep w/bottoms up. Clear pipe of LCM.
20:30	2.50	23:00	6	TRIPS	22 stand STRIP. Wipe hole not previously worked during stage in from surface shoe.
23:00	1.00	00:00	5	COND MUD & CIRC	Circ BU.
00:00	1.00	01:00	2	DRILL ACTUAL	Drill/slide from 8047' to 8079'. MWD erratic. Multiple azimuth and inclination readings at each station.
01:00	0.50	01:30	20	DIRECTIONAL WORK	Troubleshoot MWD.
01:30	4.50	06:00	6	TRIPS	Build slug, blow down kelly. TOO H 10 stands to recheck MWD. Tool not working properly. Continue TOO H to change tool.

**14-7D-36 BTR 2/5/2012 06:00 - 2/6/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	6	TRIPS	Finish out of hole. LD MWD, motor and bit. Close blind rams. PU new bit and motor. Open blind rams.
09:30	2.00	11:30	20	DIRECTIONAL WORK	PU new MWD tool. Scribe tools and continue in hole.
11:30	6.50	18:00	6	TRIPS	Stage in hole. Circ BU at casing shoe, 5800' and TD. Conduct BOP drill while TIH. FT pipe rams.
18:00	12.00	06:00	2	DRILL ACTUAL	Drill/slide from 8079' to 8495'. BOP drill at 8082'. F/T pipe rams. SPR at 8463'

**14-7D-36 BTR 2/6/2012 06:00 - 2/7/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	Drill/slide from 8495' to 8876'. BOP drill at 8781'. F/T pipe rams. SPR @ 8844'.
17:00	0.50	17:30	7	LUBRICATE RIG	Rig Service.
17:30	12.50	06:00	2	DRILL ACTUAL	Drill/slide from 8876' to 9352'. BOP drill at 8996'. F/T annular. SPR @ 9320'. No losses.

**14-7D-36 BTR 2/7/2012 06:00 - 2/8/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	2	DRILL ACTUAL	Drill/slide from 9352' to 9542'.
11:30	0.50	12:00	7	LUBRICATE RIG	Rig service.
12:00	6.00	18:00	2	DRILL ACTUAL	Drill/slide from 9542' to 9733'. BOP drill at 9560. F/T pipe rams. SPR @ 9542'.
18:00	12.00	06:00	2	DRILL ACTUAL	Drill/slide from 9733' to 10114'. BOP drill at 9809'. F/T Pipe rams. SPR @ 10082'.

**14-7D-36 BTR 2/8/2012 06:00 - 2/9/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	2	DRILL ACTUAL	Drill/slide from 10144' to 10400'. Gas show at 10400'. Could not get back to bottom on connection at 10400'.
13:00	1.50	14:30	6	TRIPS	LD 1 jt, unable to get down. LD 4 more jts. Unable to get down on any of the joints. Pull 3 stands. Able to wash down after last stand pulled. Well not flowing. Bit at 9905'.
14:30	9.50	00:00	5	COND MUD & CIRC	Circ x cond mud. Bring mud weight to 9.5 ppg. Maintain LCM. Level out system prior to reaming to bottom. Well taking mud. Attempt to stabilize MW. Well taking fluid at 9.5+ - 9.6 ppg. Advantage providing second mud engineer on location to assist Advantage engineer at no cost to BBC. Retort analysis shows diesel and produced crude in mud.
00:00	6.00	06:00	21	KILL OPERATIONS	Bit at 9905'. Well started to flow when pumps are off. Shut in well and put on choke. No returns. Inside choke valve on stack packed off. RU air and blow clear into wellbore. Circ thru choke. Choke packing off at any setting less than 40%. open. Circ out gas thru buster while waiting on bulk bar. MW in 9.6+ ppg, out 9.0 ppg. SIDPP 100 psig. 9.8 ppg kill weight mud. Mud streaky in pits and hole. Build MW successively. At 0400, MW 9.5 in/out with 27%/24% LCM. At 0500 MW 9.6/9.5 in/out with 27%/21% in/out LCM. Well not taking fluid. Continue to circ and build MW to kill well. MW in 9.7 ppg w/25% LCM at report time. Hole not taking fluid. Circ hole to balance system and kill well.

**14-7D-36 BTR 2/9/2012 06:00 - 2/10/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	21	KILL OPERATIONS	C x C mud. Bring MW up to KWM. FT pipe rams.
17:00	5.00	22:00	3	REAMING	Ream to bottom.
22:00	1.50	23:30	2	DRILL ACTUAL	Drill/Slide 10400' - 10445'.
23:30	3.50	03:00	5	COND MUD & CIRC	Pump LCM sweeps, Circ. @ 45 strokes.
03:00	2.50	05:30	2	DRILL ACTUAL	Drill/Slide 10445' - 10498'. BOP Drill.
05:30	0.50	06:00	5	COND MUD & CIRC	Circulate gas out on choke.

**14-7D-36 BTR 2/10/2012 06:00 - 2/11/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	21	Circulate gas kick out	Circulate kick out on choke.
06:30	5.50	12:00	2	DRILL ACTUAL	Drill/Slide 10498' - 10599'. Lost 200 bbls mud.
12:00	3.50	15:30	5	COND MUD & CIRC	Pump LCM sweeps @ 55 strokes.
15:30	6.50	22:00	2	DRILL ACTUAL	Drill 10599' - 10774'.
22:00	3.50	01:30	5	COND MUD & CIRC	Pump LCM sweeps, build volume.
01:30	2.50	04:00	2	DRILL ACTUAL	Drill 10774' - 10845'.
04:00	0.50	04:30	5	COND MUD & CIRC	Pump sweep.
04:30	0.50	05:00	2	DRILL ACTUAL	Drill 10845' - 10860'.
05:00	1.00	06:00	5	COND MUD & CIRC	Pump LCM sweeps, build volume.

**14-7D-36 BTR 2/11/2012 06:00 - 2/12/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	5	COND MUD & CIRC	Pump LCM sweeps and build volume.
08:00	4.00	12:00	2	DRILL ACTUAL	Drill 10860' - 10939'.
12:00	4.00	16:00	21	SUPERSUCK PITS	Supersucker cleaned pits.
16:00	5.00	21:00	5	COND MUD & CIRC	Build volume.
21:00	9.00	06:00	2	DRILL ACTUAL	Drill 10939' - 11146'. BOP Drill.

**14-7D-36 BTR 2/12/2012 06:00 - 2/13/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Drill 11146' - 11200'. TD well.
08:00	3.50	11:30	5	COND MUD & CIRC	Circ BU, fill pipe w/clean mud, pump pill.
11:30	2.50	14:00	6	TRIPS	ST 25 stds, hole in good shape.
14:00	8.00	22:00	5	COND MUD & CIRC	Circ BU, gas out. Waited on gel 3.5 hrs. Build clean mud and fill pipe w/same, pump pill.
22:00	8.00	06:00	6	TRIPS	TOH f/logs using spinners. Hole swabbed first 10 stds, flow check after 10 and 20 - 0 flow. Pumped 123 bbl mud cap @ 11.1 ppg @ 9000'. Continue TOH, pulled 9 stds, last 2 were wet. Try to pump small dry job, drill string plugged. Try to unplug drillstring unsuccessfully, pull wet. Pason total mud not working correctly, monitored pits in person.

**14-7D-36 BTR 2/13/2012 06:00 - 2/14/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.50	12:30	6	TRIPS	Pull pipe wet, not filling quite enough. No flow on flow checks. Drill collar above motor, mm plugged w/LCM. L/D directional tools, mm.
12:30	2.00	14:30	6	TRIPS	P/U bit # 11RR, rih w/bha.
14:30	2.00	16:30	9	CUT OFF DRILL LINE	Cut and slip drilling line.
16:30	12.50	05:00	6	TRIPS	Tih. Stage in hole, B/U @ 3500', 5500', 7500', 9500'. Circ gas out @ 9500', tih to bottom.
05:00	1.00	06:00	5	COND MUD & CIRC	Circ & cond to lddp.

**14-7D-36 BTR 2/14/2012 06:00 - 2/15/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.50	12:30	5	COND MUD & CIRC	C & C to LDDP. Circ gas out on choke. Displace Drillstring w/clean mud, pump pill. HSM W/laydown crew & rig personnel, R/U Frank's csg. BOP Drill.
12:30	13.50	02:00	6	TRIPS	HSM. LDDP. Pull wear bushing.
02:00	4.00	06:00	12	RUN CASING & CEMENT	HSM. R/U casers and run csg. Details on next report. Function blind rams, Bop drill.



**14-7D-36 BTR 2/15/2012 06:00 - 2/16/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	12	RUN CASING & CEMENT	Finish running 5 1/2", 17#, P-110 STL flush jt csg as follows: FS, 2 jts shoe track, FC, 15 jts csng, MJ @ 10508', 25 jts csg, MJ @ 9307', 33 jts csg, MJ @ 7884', 181 jts csg(256 total), Tag bottom @ 11200', 2' fill.
17:30	5.00	22:30	5	COND MUD & CIRC	Circ gas out & condition hole f/cement.
22:30	4.00	02:30	12	RUN CASING & CEMENT	HSM. Cement well as follows: Pressure test to 5000 psi. Pump 40 bbl super flush @ 9.2 ppg, 4.22 yld, 28.88 gps h2o, 5 bbl h2o spacer. Mix and pump 564 bbl (1360 sx) Tuned Lite lead cmt @ 11 ppg, 2.33 yld, 10.63 gps h2o. Tail in w/177 bbl (700 sx) Econocem cmt @ 13.5 ppg, 1.42 yld, 6.64 gps h2o. Shut down, Wash pumps & lines to reserve pit. Drop top wiper plug. Displace cmt w/258 bbl water w/ Cla-web & Albacide. Lost returns w/30 bbls left, slowed rate and regained returns, no cmt to surface. Max pressure 1950 psi, bump plug w/2500 psi. Bleed back 2 bbls, floats held. R/D Halliburton.
02:30	2.00	04:30	21	Set Slips	NDBOP, raise up and Cameron set slips on 5 1/2" csg W/ 150000# (25000# over string wt). Rough cut csg, set hole cover.
04:30	1.50	06:00	21	Clean Pits	Clean pits. Release rig @ 06:00 as per agreement w/ Conrad Velez, Patterson TP.

**14-7D-36 BTR 2/22/2012 06:00 - 2/23/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	LOCL	Lock Wellhead & Secure	Well shut in & secured, Wireline crew traveling to location.
07:00	2.50	09:30	SRIG	Rig Up/Down	Halliburton wireline crew arrived on location. Safety meeting with wireline crew. checked wind speeds, verified crane configuration & boom length was set for current wind speeds. Wind speeds @ 15-25 MPH. No pressure on 5.5' Csg. Removed 7 1/16' night cap. N/U 7 1/16" wireline adapter. P/up CCL, Junk basket & 4.70 Gauge Ring.
09:30	1.25	10:45	WLWK	Wireline	RIH with CCL, Junk Basket & 4.7" Gauge Ring, RIH @ 250' fpm, Seen drop in line tension @ 11,055', Pulled up and seen line tension CCL hold steady 11,057', PBTD @ 11,049'. Float Collar depth @ 11,110'. Pooh with e-line.
10:45	0.50	11:15	TRIP	Tripping	Pooh e-line CCL, Junk Basket & 4.7" Gauge Ring. L/D CCL/Junk Basket/Gauge ring BHA. Construction crews continued to work on production facilities throughout the day, finished filling 16-12D-37 BTR staging area
11:15	9.75	21:00	LOGG	Logging	P/up Cased hole logging tools, RMTI/RBT/CCL/GR, RIH with Logging tools @ 250' fpm. Stopped tool string @ 3700', power up logging tools. logged from 3700' to 3500' verified logging tools were working correctly. Continued to RIH with logging tools and Tagged PBTD @ 11,080', Verified line P/up @ 11,057', Logged repeat pass from 11,057' to 10,800' @ 25' fpm, Tools logging good. Drop back down to 11,080', pulled up to 11,057', applied 1000# to 5.5" casing. Started logging main pass from 11,057' to 3500' with RMTI/CCL/RBT/CBL/GR. Powered down RMTI @ 3500' and continued to run RBT/CBL/CCL/GR to surface. Good Cement from 11,057' to 4300', from 4300' to 4050', ratty cement, and fair cement 4050' to 3100', called top of cement @ 3100'. Located Marker Joints @ 10,461' to 10,482', 9262' to 9283', 7842' to 7842',
21:00	1.00	22:00	SRIG	Rig Up/Down	Bleed off pressure, L/D logging tools, N/D wireline adapter, N/U night cap. secured well head. Finished rigging down e-line equipment moved off location.
22:00	8.00	06:00	LOCL	Lock Wellhead & Secure	Shut in and secured well head for the night.

**14-7D-36 BTR 2/23/2012 06:00 - 2/24/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Well shut in and secured. Construction crews can't to work on production facilities. El-Paso completed gas line tie in then liad 4 line through location.

**14-7D-36 BTR 2/24/2012 06:00 - 2/25/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Well head shut in and secured, El-Paso construction crews finished installing 4" gas line, Construction crews continue to work on production facility. hooked up well head flow lines and tank battery lines. started to stage in frac tanks on the 16-12D-37 BTR,

**14-7D-36 BTR 2/25/2012 06:00 - 2/26/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Well head shut in and secured. Set Frac tanks, cleaned and re leveled location.

**14-7D-36 BTR 2/26/2012 06:00 - 2/27/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Well shut in and secured. Finished Setting Frac tanks on location. Hauled in flow back and storage tanks. Filled Frac tanks with KCL Slurry.

**14-7D-36 BTR 2/27/2012 06:00 - 2/28/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Well Head Shut in & Secured. Con't to work on production facilities. Built berms around flow back tanks. Con't to fill frac tanks with KCL. Set up water transfer lines.

**14-7D-36 BTR 2/20/2012 06:00 - 2/21/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Initial Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BackFilled Cellar Leveled Location Set Tbg. Head With Cameron, Tested Seals Prod. Crew Begin Moving In To Construct Facilities Begin Filling 16-12D-37 Staging Area

**14-7D-36 BTR 2/21/2012 06:00 - 2/22/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,200.0	Primary Job Type Initial Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Production Crew Working On Facilities. Doing Pad Remediation On Bad Spots Left By Rig Filling 16-12D-37 Staging Area.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 14-7D-36 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0744 FSL 0776 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 07 Township: 03.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506130000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <b>3/9/2012</b>	<input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME		
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

This well had first gas sales on 3/9/2012 and first oil sales on 3/11/2012.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 March 12, 2012

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/12/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: 14-7D-36 BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013506130000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: CEDAR RIM
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0744 FSL 0776 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 07 Township: 03.0S Range: 06.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/31/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

March 2012 monthly drilling activity report is attached.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 April 13, 2012

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 4/5/2012

**14-7D-36 BTR 3/1/2012 06:00 - 3/2/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Well shut in and secured, No Completion activity, Construction crews continued to work on insulating production equipment.

**14-7D-36 BTR 3/2/2012 06:00 - 3/3/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Frac tree shut in and secured. Set HES Water manifold and HES Mountain Movers. Location ready for frac, Construction crews finished with insulated production equipment. Construction crews continue to install 12' gas line between 16-12D-37 to the 14-7D-36 BTR.

**14-7D-36 BTR 3/3/2012 06:00 - 3/4/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Well shut in and Secured. Heating Frac Water to 110*, Hauled in Frac sand.

**14-7D-36 BTR 3/4/2012 06:00 - 3/5/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	LOCL	Lock Wellhead & Secure	Well shut in and secured. SLB wireline crew traveling from Vernal yard to location.
08:00	1.75	09:45	GOP	General Operations	Spotted in Wireline equipment, Safety meeting with SLB wireline crew. P/up wireline bop's, grease head & lubricator, rigged up test unit. Pressure tested e-line equipment to 4500 psi, good test, bled off pressure. disconnected lub, Armed Stg #1 perf guns. P/up Stg # 1- 3104 PJO perf guns. Open frac tree, started in the hole with guns.
09:45	1.25	11:00	PFRT	Perforating	RIH with stg #1 perf guns. located tie in marker @ 10,461' to 10,482', completed depth correction to CCL using Halliburton RMTI & RBT log reference Ran on 2/22/12, Drop down to tie collar, pulled up & perf'd Stg #1 interval from 10,729' to 11,005'. Placed a total of 45 holes in stage #1. all shots fired as designed.
11:00	0.50	11:30	TRIP	Tripping	Pooh with spent perf guns.
11:30	2.00	13:30	SRIG	Rig Up/Down	Secured spent guns in lubricator. L/D guns. secured frac tree. Halliburton Frac crew and equipment arrived on location. Halliburton Blender was still in the shop, could only rig up 50% of the frac equipment until Blender unit arrive's
13:30	16.50	06:00	LOCL	Lock Wellhead & Secure	Frac tree and location secured for the night. Heating frac water on the 16-12D-37 BTR to 110*.

**14-7D-36 BTR 3/5/2012 06:00 - 3/6/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	GOP	General Operations	HES Frac Crew arrived @ 04:00 hrs with Blender, spotted in Blender and remaining frac equipment. Primed pumps, ran QA/QC fluid checks. pressure tested treating iron to 9500 psi, test held good. safety meeting with all contractors on location.
09:30	0.25	09:45	SMTG	Safety Meeting	Reviewed JSA and hazards on location, discussed safe zone & hot zones while pumping to the job. discussed working around suspended load and pressurized equipment. designated smoking area and established muster points

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
09:45	1.50	11:15	FRAC	Frac. Job	<p>Pressure tested treating iron @ 9500 psi. Stg # 1 of 6, Zone Stg CR-6, Water Temp @ 60 °. Open Well @ 9:22 Hrs, With 958 Csg psi, 0 Surface and Frac Mandrel, 0 psi Formation Break Down @ 10.8 bpm, 3306 psi. Started on 15%HCL @ 9.8 bpm 2668 psi, Pumped Bioballs @ 29.4 bpm 4059 psi. Total Bbls of 15% HCL Pump 93 bbls &amp; Bio-Balls 90 pumped. Started on 3% KCL Slick Water pad @ 67.9 bpm, 6040 psi. Open Perforation = 25 out of 45 shots, ISIP =3007 psi, .72 Frac Gradient Started on X-link pad @ 68.3 bpm, 5308 psi. Start 1#/ Gal 100 Mesh, 67.8 bpm, 5710 psi</p> <p>1# 69.7 bpm, 5133 psi 1# On perfs bpm 69.7 @ 4822 psi  2# 69.6 bpm, 4807 psi 2# On perfs bpm 69.8 @ 4531 psi  3# 69.5 bpm, 4550 psi 3# On perfs bpm 71.3 @ 4466 psi  3.5# 71.4 bpm, 4462 psi 3.5# On perfs bpm 71.5 @ 4415 psi  4# 69.6 bpm, 4350 psi 4# On perfs bpm 69.7 @ 4352 psi</p> <p>On Flush @ 70.3 bpm, 4493 psi  Open Perforation = 44 out of 45 shots, ISDP, 3558 psi, 0.77 Frac Gradient. Max Rate 72.1 bpm, Max Pressure 6394 psi.  Avg Rate 69.8 bpm, Avg Pressure 5000 psi  Total X-link fluids pumped: 1518 gals  Total Slick water Pad pumped: 1916 gals  Total fluid in bbls pumped: 3526 bbls  Total CRC Sand pumped, 20/40 = 157,000#  Total 100 Mesh Sand Pumped: 19,500#</p>
11:15	1.50	12:45	PFRT	Perforating	<p>R/U E-line, P/up stg #2, 10K Fast Drill CBP and 3 1/8", 3104 PJO Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from using Halliburton RMT1 &amp; RBT log reference Ran on 2/22/12, log reference, Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 10,725', with 2400 psi, pulled up and perforated stg # 2 intervals from 10486' to 10,708'. ending pressure 2700 psi. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #2.</p>
12:45	1.50	14:15	FRAC	Frac. Job	<p>Pressure tested treating iron @ 9001 psi. Stg # 2 of 6, Zone Stg CR-5, Open Well @ 12:50 Hrs, With 2560 Csg psi, 0 Surface and Frac Mandrel, 0 psi, Formation Break Down @ 10.0 bpm, 3250 psi. Total 15% HCL Pumped 93 bbls &amp; Bio-Balls pumped 84 Started on 3% KCL Slick Water pad @ 70.6 bpm, 5137 psi. Open Perforation = 36 out of 42 shots, ISIP = 3126 psi, .74 Frac Gradient Started on X-link pad @ 70.6 bpm, 5088 psi. Start 1#/ Gal 100 mesh sand, 71.0 bpm, 5151 psi</p> <p>1# 70.9 bpm, 5240 psi 1# On perfs bpm 70.8 @ 4950 psi  2# 70.7 bpm, 4841 psi 2# On perfs bpm 70.8 @ 4663 psi  3# 70.8 bpm, 4658 psi 3# On perfs bpm 70.8 @ 4462 psi  3.5# 70.8 bpm, 4475 psi 3.5# On perfs bpm 70.8 @ 4431 psi  4# 70.8 bpm, 4443 psi 4# On perfs bpm 70.9 @ 4431 psi</p> <p>On Flush @ 70.3 bpm, 4566 psi. Open Perforation = 42 out of 42 shots, ISDP, 3668 psi, 0.79Frac Gradient. Max Rate 72.4 bpm, Max Pressure 5419 psi. Avg Rate 70.8 bpm, Avg Pressure 4841 psi  Total X-link fluids pumped: 83,835 gals  Total Slick water Pad pumped: 77,846 gals  Total fluid in bbls pumped: 3942 bbls  Total CRC Sand pumped, 20/40 = 167,000#,  Total 100 Mesh Sand Pumped: 20,200#</p>
14:15	1.50	15:45	PFRT	Perforating	<p>R/U E-line, P/up stg #3, 10K Fast Drill CBP and 3 1/8", 3104 PJO Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from using Halliburton RMT1 &amp; RBT log reference Ran on 2/22/12, log reference Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 10,477', with 3000 psi, pulled up and perforated stg # 3 intervals from 10,263' to 10,461'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #3.</p>



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
15:45	3.50	19:15	FRAC	Frac. Job	Pressure tested treating iron @ 8450 psi. Stg # 3 of 6, Zone Stg CR-4, Open Well @ 16:15 Hrs, With 3000 Csg psi, 0 Surface and Frac Mandrel, 0 psi Formation Break Down @ 9.8 bpm, 3762 psi. lost pump rate, had to shut down and fix flow meter on blender, Total Bbls of 15% HCL Pump 93 bbls & Bio-Balls pumped 90. Started on 3% KCL Slick Water pad @ 69.8 bpm, 6597 psi Open Perforation = 22 out of 45 shots, ISIP = 3532 psi, .78 Frac Gradient. Started on X-link pad @ 70.4 bpm, 5204 psi Start 1#/ Gal 100 mesh sand, 70.4 bpm, 4917 psi 1# 70.2 bpm, 5348 psi 1# On perfs bpm 70.3 @ 5230 psi 2# 70.3 bpm, 5207 psi 2# On perfs bpm 70.2 @ 4985 psi 3# 70.2 bpm, 5001 psi 3# On perfs bpm 70.3 @ 4821 psi 3.5# 70.3 bpm, 4825 psi 3.5# On perfs bpm 70.3 @ 4838 psi 4# 70.3 bpm, 4838 psi 4# On perfs bpm 70.3 @ 4812 psi On Flush @ 69.6 bpm, 4917 psi Open Perforation = 45 out of 45 shots, ISDP, 4076 psi, 0.83 Frac Gradient. Max Rate 70.4 bpm, Max Pressure 7109 psi. Avg Rate 70.2 bpm, Avg Pressure 5377 psi Total X-link fluids pumped: 83,921 gals Total Slick water Pad pumped: 75,192 gals Total fluid in bbls pumped: 3881 bbls Total Prem White Sand pumped, 20/40 = 167,900#, Total 100 Mesh Sand Pumped: 20,600#
19:15	1.50	20:45	PFRT	Perforating	R/U E-line, P/up stg #4, 10K Fast Drill CBP and 3 1/8", 3104 PJO Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from using Halliburton RMTI & RBT log reference Ran on 2/22/12, log reference Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 10250', with 3250 psi, pulled up and perforated stg #4 intervals from 10043' to 10228'. Ending pressure 1250 psi. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #4 on the am.
20:45	9.25	06:00	GOP	General Operations	Shut in and secured frac tree, Greased and cycled frac valves, pumped 50/50 Methanol to freeze protect frac tree. con't to haul in frac sand and frac water throughout the night.

**14-7D-36 BTR 3/6/2012 06:00 - 3/7/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	GOP	General Operations	Frac crew arrived @ 05:00, Started and primed pumps. Ran QA/QC fluid checks.
06:30	0.50	07:00	SMTG	Safety Meeting	Safety meeting with frac crew and all contractors on locaion, review JSA and discussed yesterday pump issues.
07:00	1.50	08:30	FRAC	Frac. Job	Pressure tested treating iron @ 9000 psi. Stg # 4 of 6, Zone Stg CR-4. Open Well @ 06:55 Hrs, With 905 Csg psi, 0 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 9.9 bpm, 3140 psi. Total Bbls of 15% HCL Pump 93 bbls & Bio-Balls pumped 90. Started on 3% KCL Slick Water pad @ 65 bpm, 6501 psi. Open Perforation =22 out of 42 shots, ISIP = 2813 psi, .72 Frac Gradient. Started on X-link pad @ 70.6 bpm, 4802 psi. Start 1#/ Gal 100 mesh sand, 70.7 bpm, 4733 psi 1# 70.4 bpm, 5030 psi 1# On perfs bpm 70.4 @ 4913 psi 2# 70.4 bpm, 4868 psi 2# On perfs bpm 70.4 @ 4652 psi 3# 70.3 bpm, 4645 psi 3# On perfs bpm 70.4 @ 4515 psi 3.5# 70.4 bpm, 4544 psi 3.5# On perfs bpm 70.4 @ 4479 psi 4# 70.4 bpm, 4486 psi 4# On perfs bpm 70.4 @ 4442 psi On Flush @ 70.3 bpm, 4597 psi. Open Perforation = 42 out of 42 shots, ISDP, 2618 psi, 0.79 Frac Gradient. Max Rate 70.9 bpm, Max Pressure 4597 psi. Avg Rate 70.3 bpm, Avg Pressure 5123 psi Total X-link fluids pumped: 84,147 gals Total Slick water Pad pumped: 74,256 gals Total fluid in bbls pumped: 3864 bbls Total CRC Sand pumped, 20/40 = 167,600#, Total 100 Mesh Sand Pumped: 20,600#
08:30	1.50	10:00	PFRT	Perforating	R/U E-line, P/up stg #5, 10K Fast Drill CBP and 3 1/8", 3104 PJO Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from using Halliburton RMTI & RBT log reference Ran on 2/22/12, log reference Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 10,036', with 2800 psi, pulled up and perforated stg # 5 intervals from 9819' to 10,016'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #5.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	1.50	11:30	FRAC	Frac. Job	Pressure tested treating iron @ 8800 psi. Stg # 5 of 6, Zone Stg CR-3. Open Well @ 10:15 Hrs, With 2605 Csg psi, 0 Surface & Frac Mandrel, 0 psi. Formation Break Down @ 9.8 bpm, 2832 psi. Total Bbls of 15% HCL Pump 93 bbls & Bio-Balls pumped 84 Started on 3% KCL Slick Water pad @ 70.3 bpm, 6336 psi. Open Perforation = 25 out of 42 shots, ISIP = 2883 psi, .73 Frac Gradient. Started on X-link pad @ 71.1 bpm, 4713 psi. Start 1#/ Gal 100 mesh sand, 71.1 bpm, 4715 psi 1# 70.8 bpm, 4791 psi 1# On perfs bpm 70.8 @ 4615 psi 2# 70.8 bpm, 4578 psi 2# On perfs bpm 70.8 @ 4358 psi 3# 70.8 bpm, 4237 psi 3# On perfs bpm 70.8 @ 4146 psi 3.5# 70.8 bpm, 4217 psi 3.5# On perfs bpm 70.8 @ 4146 psi 4# 70.8 bpm, 4158 psi 4# On perfs bpm 70.6 @ 4126 psi On Flush @ 69.8 bpm, 4277 psi. Open Perforation = 42 out of 42 shots, ISDP 2757, psi, 0.77 Frac Gradient. Max Rate 71.1 bpm, Max Pressure 6362 psi. Avg Rate 70.7 bpm, Avg Pressure 4800 psi Total X-link fluids pumped: 73,545 gals Total Slick water Pad pumped: 78,876 gals Total fluid in bbls pumped: 3722 bbls Total CRC Sand pumped, 20/40 = 157,100#, Total 100 Mesh Sand Pumped: 19,700#
11:30	2.50	14:00	PFRT	Perforating	R/U E-line, P/up stg #6, 10K Fast Drill CBP and 3 1/8", 3104 PJO Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from using Halliburton RMT1 & RBT log reference Ran on 2/22/12, log reference Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 9812', with 2700 psi, pulled up and perforated stg #6 intervals from 9765' to 9788', fired only three shots, lost detonator switch on 4th shot. Mis run, Pooh with gun string & setting tool. Replaced Detonator switch, RIH with remaining shots for stg #6. Finished perforating Stg #6 from 9623' to 9748', POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #6.
14:00	2.00	16:00	FRAC	Frac. Job	Pressure tested treating iron @ 8500 psi. Stg # 6 of 6, Zone Stg CR-3 & 2, Open Well @ 15:12 Hrs, With 2500 Csg psi, 0 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 9.9 bpm, 3120 psi. Total Bbls of 15% HCL Pump 93 bbls & Bio-Balls pumped 72. Started on 3% KCL Slick Water pad @ 70.0 bpm, 5248 psi. Open Perforation = 29 out of 39 shots, ISIP = 2831 psi, .73 Frac Gradient. Started on X-link pad @ 70.0 bpm, 4858 psi. Start 1#/ Gal 100 mesh sand, 71.2 bpm, 4826 psi 1# 70.9 bpm, 5058 psi 1# On perfs bpm 71.0 @ 4887 psi 2# 71.0 bpm, 4882 psi 2# On perfs bpm 71.0 @ 4730 psi 3# 70.9 bpm, 4700 psi 3# On perfs bpm 71.0 @ 4610 psi 3.5# 71.0 bpm, 4603 psi 3.5# On perfs bpm 71.0 @ 4535 psi 4# 71.0 bpm, 4534 psi 4# On perfs bpm 71.0 @ 4509 psi On Flush @ 71.2 bpm, 4661 psi Open Perforation = 39 out of 39 shots, ISDP, 3198 psi, 0.77 Frac Gradient. Max Rate 71.3 bpm, Max Pressure 5270 psi. Avg Rate 70.9 bpm, Avg Pressure 4772 psi Total X-link fluids pumped: 76,150 gals Total Slick water Pad pumped: 74,250 gals Total fluid in bbls pumped: 3674 bbls Total Prem White Sand pumped, 20/40 = 143,780#, Total 100 Mesh Sand Pumped: 13,600#
16:00	1.00	17:00	WLWK	Wireline	Tuned well over to E-line. P/up Baker Setting Tools and CBP, RIH to target depth, completed tie in, Set CBP @ 9566', with 2650 psi on the Csg. Bled off pressure to 0 psi, zone flow on the csg. Pooh with e-line.
17:00	2.00	19:00	GOP	General Operations	Pumped 50/50 Methanol for freeze protection. RDMO SLB & Halliburton, Batched frac tanks for Work rig.
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	Secured Frac tree and location for the night.

**14-7D-36 BTR 3/7/2012 06:00 - 3/8/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	LOCL	Lock Wellhead & Secure	WSI.
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting.
07:30	2.00	09:30	SRIG	Rig Up/Down	Set Anchors, MIRU w/o rig.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
09:30	0.50	10:00	BOPI	Install BOP's	Bled off Pressure from Csg. ND Frac tree, NU 7 1/16" 5K 2' Spacer Spool, NU 7 1/16" 5K Double gate, NU 7 1/16" 5K Mud Cross, NU 7 1/16" 5K Annular, change out element & function test.
10:00	0.50	10:30	SRIG	Rig Up/Down	RU work floor & Tbg. equip.
10:30	1.50	12:00	GOP	General Operations	Unload Tbg.
12:00	3.50	15:30	RUTB	Run Tubing	PU 4 5/8" Chomp Mill, 1 Jt. 2 7/8" L80 6.5# Tbg., 2.205" XN Nipple, 1 Jt., 2.313" X Nipple, & Tbg. Tag Kill Plug @ 9566'.
15:30	0.50	16:00	PULT	Pull Tubing	Lay down 5 Jts,
16:00	0.50	16:30	SRIG	Rig Up/Down	RU Power Swivel.
16:30	13.50	06:00	LOCL	Lock Wellhead & Secure	Secure well for the night. WSI.

**14-7D-36 BTR 3/8/2012 06:00 - 3/9/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	LOCL	Lock Wellhead & Secure	WSI.
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting
07:30	10.00	17:30	DOPG	Drill Out Plugs	Make connections to next plug. Establish circ. w/ Rig pump @ 2 Bbls./min. Returning 3 Bbls./min. Drill Plugs as follows:  Plg. @ 9566', Csg.-1400# Plg. @9812', 30' of sand. Csg.-1800# Plg. @10036', 35' of sand. Csg.-1750# Plg. @10250', 15' of sand. Csg.-1050# Plg. @10477', 25' of sand. Csg.-1050# Plg. @10725', 25' of sand. Csg.-1000#  Plug were very difficult to drill out, due to high pressure & dog leg. Circulated Bottoms up.
17:30	0.50	18:00	GOP	General Operations	Drain all Fluid lines & Rig pump. Tarp in well. Secure well SDFN.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WSI SDFN.

**14-7D-36 BTR 3/9/2012 06:00 - 3/10/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	LOCL	Lock Wellhead & Secure	WSI.
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting
07:30	2.00	09:30	CLN	Clean Out Hole	Clean out rat hole to FC @ 11110'. Circulate bottoms up.
09:30	0.50	10:00	SRIG	Rig Up/Down	RD Power Swivel.
10:00	0.50	10:30	PULT	Pull Tubing	Lay down tbg. to landing depth.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com																																																																																																																							
10:30	1.00	11:30	GOP	General Operations	PU Hanger, Wash Bowl w/ 5 Bbbs., Stage hanger thru BOP stack, Land hanger & Test. Land Tbg. as follows: Tubing Des: Tubing - ProductionSet Depth (ftKB): 9,521.3Run Date: 2012/03/09 12:00 Pull Date: Tubing Components  <table><tr><th>Jts</th><th>Item Des</th><th>OD (in)</th><th>ID (in)</th><th>Wt (lb/ft)</th><th>Grade</th><th>Len (ft)</th></tr><tr><th>Top (ftKB)</th><th>Btm (ftKB)</th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>1</td><td>Tubing Hanger</td><td>5</td><td>2.441</td><td>6.5</td><td>L-80</td><td>0.44</td></tr><tr><td></td><td>0.4</td><td></td><td></td><td></td><td></td><td>0</td></tr><tr><td>298</td><td>Tubing</td><td>2 7/8</td><td>2.441</td><td>6.5</td><td>L-80</td><td>9,454.18</td></tr><tr><td></td><td>9,454.60</td><td></td><td></td><td></td><td></td><td>0.4</td></tr><tr><td>1</td><td>X Nipple</td><td>2 7/8</td><td>2.313</td><td>6.5</td><td>L-80</td><td>1.25</td></tr><tr><td></td><td>9,454.60</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Tubing</td><td>2 7/8</td><td>2.441</td><td>6.5</td><td>L-80</td><td>31.69</td></tr><tr><td></td><td>9,455.90</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>XN Nipple</td><td>2 7/8</td><td>2.205</td><td>6.5</td><td>L-80</td><td>1.19</td></tr><tr><td></td><td>9,487.60</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Tubing</td><td>2 7/8</td><td></td><td>2.441</td><td>6.5</td><td>L-80</td></tr><tr><td></td><td>9,488.80</td><td></td><td></td><td></td><td></td><td>31.7</td></tr><tr><td></td><td>9,520.50</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>POB sub</td><td>3 1/8</td><td>2.441</td><td></td><td></td><td>0.85</td></tr><tr><td></td><td>9,520.50</td><td></td><td></td><td></td><td></td><td></td></tr></table>	Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)						1	Tubing Hanger	5	2.441	6.5	L-80	0.44		0.4					0	298	Tubing	2 7/8	2.441	6.5	L-80	9,454.18		9,454.60					0.4	1	X Nipple	2 7/8	2.313	6.5	L-80	1.25		9,454.60						1	Tubing	2 7/8	2.441	6.5	L-80	31.69		9,455.90						1	XN Nipple	2 7/8	2.205	6.5	L-80	1.19		9,487.60						1	Tubing	2 7/8		2.441	6.5	L-80		9,488.80					31.7		9,520.50						1	POB sub	3 1/8	2.441			0.85		9,520.50					
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11:30	0.50	12:00	SRIG	Rig Up/Down	RD Tbg. equip. & work floor.																																																																																																																							
12:00	0.50	12:30	BOPR	Remove BOP's	ND BOP, NU Producton Tree. Tie in sand can From Tbg. to sales line.																																																																																																																							
12:30	0.50	13:00	GOP	General Operations	Drop ball, POB, & chase w/ 30 Bbbs. @ 4.5 Bbbs./min. Drain all fluid equip.																																																																																																																							
13:00	1.00	14:00	SRIG	Rig Up/Down	RDMO w/o Rig.																																																																																																																							
14:00	1.00	15:00	WLWK	Wireline	MIRU Delsco slick line tag PBTD @ 10980.'.																																																																																																																							
15:00	15.00	06:00	FBCK	Flowback Well	Put well on Production.																																																																																																																							

**14-7D-36 BTR 3/19/2012 06:00 - 3/20/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	GOP	General Operations	MOVE IN R/U BELLD WELL OFF KILL N/U BOP & HYDRILL POOH W/TUBING
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	DOWN TIL MORNING

**14-7D-36 BTR 3/20/2012 06:00 - 3/21/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	GOP	General Operations	TRAVEL
07:00	10.00	17:00	GOP	General Operations	CLEAN UP MESS FROM BOP LEAKING FIX BOP UNABLE SWAP BOP OUT MAKE UP MOTORS AND PUMPS RIH W/ 1 STAND
17:00	13.00	06:00	LOCL	Lock Wellhead & Secure	DOWN TIL MORNING

**14-7D-36 BTR 3/21/2012 06:00 - 3/22/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	GOP	General Operations	TRAVEL

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
07:00	12.00	19:00	RUTB	Run Tubing	RIH W/ TUBING IN HOLE 296 JTS 4' SUB 3- PUMP GAS SEP. SEAL ASS. 4 JTS BULL PLUG P/U MAKE SPLICE TO FIND OUT CUT CABLE OFF 14" TO SHORT BAND OFF RIH W/ JT SHUT WELL IN
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	DOWN TIL MORNING

**14-7D-36 BTR 3/22/2012 06:00 - 3/23/2012 06:00**

API/UWI 43-013-50613	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,200.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	GOP	General Operations	TRAVEL
07:00	10.00	17:00	HOIL	Hot Oil Well	GET WELL DEAD PULL UP 2 JTS REDO SPLICE PLUG IN LAND TUBING N/D BOP N/U WLL HEAD
17:00	13.00	06:00	GOP	General Operations	TURN OVER TO PRODUCTION

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Bill Barrett Corporation Operator Account Number: N 2165  
Address: 1099 18th Street, Suite 2300  
city Denver  
state CO zip 80202 Phone Number: (303) 312-8172

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301334113	14-1-46 BTR		SESW	1	4S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18516	4/9/2012			4/30/2012	
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 10:00 am. <u>WSTC</u>							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350687	4-17D-45 BTR		NWNW	17	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18517	4/9/2012			4/30/2012	
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 10:00 am. <u>grws nwnw</u>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350613	14-7D-36 BTR		SWSW	7	3S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	18330	18330	11/28/2011			3/9/12	
<b>Comments:</b> <u>WSTC</u> formation <u>SESW</u>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

Title

4/30/2012

Date

RECEIVED

APR 30 2012

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
20G0005608

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No.	
2. Name of Operator BILL BARRETT CORPORATION		8. Lease Name and Well No. 14-7D-36 BTR	
3. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		9. API Well No. 43-013-50613	
3a. Phone No. (include area code) Ph: 303-299-9949		10. Field and Pool, or Exploratory ALTAMONT	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SWSW 744FSL 776FWL At top prod interval reported below SESW 824FSL 1527FWL At total depth SESW 750FSL 1958 FWL BHL by DOGM HSM		11. Sec., T., R., M., or Block and Survey or Arca Sec 7 T3S R6W Mer 6PM	
14. Date Spudded 11/28/2011		15. Date T.D. Reached 02/12/2012	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 03/09/2012		17. Elevations (DF, KB, RT, GL)* 6261 GL	
18. Total Depth: MD 11200 TVD 11092		19. Plug Back T.D.: MD 11110 TVD 8701	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL, MUD, TRIPLE COMBO ?	
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	84.0	0	96	96		0	0	
14.750	10.750 J-55	45.5	0	3595	3595	1502	694	0	
8.750	5.500 P-110	17.0	0	11200	11200	2060	741	3500	15000

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	9521							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	9623	11005	9623 TO 11005	0.380	255	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9623 TO 11005	WASATCH: SEE TREATMENT STAGES 1 - 6

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/09/2012	03/22/2012	24	→	285.0	110.0	145.0	52.0		FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
64/64	250	200.0	→	285	110	145	386	PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #135277 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

DIV. OF OIL, GAS & MINING

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**28b. Production - Interval C**

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

**28c. Production - Interval D**

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

**29. Disposition of Gas (Sold, used for fuel, vented, etc.)**

**SOLD**

**30. Summary of Porous Zones (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**31. Formation (Log) Markers**

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
WASATCH	9623	11005		GREEN RIVER MAHOGANY DOUGLAS CREEK BLACK SHALE CASTLE PEAK UTELAND BUTTE WASATCH TD	4174 5172 7595 8072 8308 8711 9171 11200

**32. Additional remarks (include plugging procedure):**

TOC was calculated by CBL. First gas sales was on 3/9/2012. First oil sales was on 3/11/2012. Conductor was cemented with grout. 9 7/8 hole size was used to drill from bottom of surface casing to 5534' then 8 3/4 hole size was drilled to TD. Attached is Treatment Data.

**33. Circle enclosed attachments:**

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |


**34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):**

Electronic Submission #135277 Verified by the BLM Well Information System.  
For BILL BARRETT CORPORATION, sent to the Vernal

Name (please print) MEGAN FINNEGAN

Title PERMIT ANALYST

Signature



Date 04/12/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

# **#14-7D-36 BTR Report**

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)		
AMOUNT AND TYPE OF MATERIAL		
<u>Stage</u>	<u>Bbls Slurry</u>	<u>lbs 100 Mesh Sand</u>
1	3,718	19,500
2	4,144	20,200
3	4,084	20,600
4	4,067	20,600
5	3,912	19,700
6	3,850	19,955

\*Depth intervals for frac information same as perforation record intervals.

RECEIVED

APR 12 2012

DIV. OF OIL, GAS & MINING

# **Bill Barrett Corp**

Duchesne County, UT (NAD 1927)

Sec. 7-T3S-R6W

#14-7D-36 BTR

Plan A Rev 2

Design: Vaughn Gyro and Sperry MWD Survey

## **Sperry Drilling Services Final Survey Report**

30 March, 2012

Well Coordinates: 691,666.48 N, 2,248,063.89 E (40° 13' 44.15" N, 110° 36' 41.54" W)

Ground Level: 6,260.00 ft

Local Coordinate Origin:

Centered on Well #14-7D-36 BTR

Viewing Datum:

RKB 16' @ 6276.00ft (Patterson 506)

TVDs to System:

N

North Reference:

True

Unit System:

API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 431

**HALLIBURTON**

**HALLIBURTON****Design Report for #14-7D-36 BTR - Vaughn Gyro and Sperry MWD Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.16	237.43	100.00	-0.07	-0.11	-0.12	0.16
<b>Surveys from 100.00ft to 3500.00ft are Vaughn Gyro Surveys</b>							
200.00	0.18	231.86	200.00	-0.24	-0.35	-0.37	0.03
300.00	0.16	197.44	300.00	-0.47	-0.51	-0.55	0.10
400.00	0.54	141.44	400.00	-0.97	-0.26	-0.34	0.47
500.00	0.48	135.09	499.99	-1.63	0.33	0.19	0.08
600.00	0.35	161.89	599.99	-2.22	0.72	0.53	0.23
700.00	0.43	255.95	699.99	-2.60	0.45	0.23	0.57
800.00	1.27	246.47	799.98	-3.13	-0.94	-1.20	0.85
900.00	0.62	295.04	899.96	-3.35	-2.45	-2.72	0.98
1,000.00	0.78	317.06	999.96	-2.62	-3.40	-3.61	0.31
1,100.00	1.29	302.21	1,099.94	-1.52	-4.82	-4.93	0.57
1,200.00	1.06	314.05	1,199.92	-0.28	-6.44	-6.44	0.33
1,300.00	0.26	300.74	1,299.91	0.48	-7.30	-7.23	0.81
1,400.00	0.63	312.54	1,399.91	0.97	-7.90	-7.79	0.38
1,500.00	0.34	314.75	1,499.91	1.55	-8.51	-8.35	0.29
1,600.00	0.81	44.93	1,599.90	2.26	-8.22	-8.00	0.88
1,700.00	0.61	2.83	1,699.89	3.29	-7.70	-7.39	0.54
1,800.00	1.10	304.20	1,799.88	4.36	-8.46	-8.07	0.94
1,900.00	1.61	299.72	1,899.86	5.60	-10.48	-9.97	0.52
2,000.00	1.42	301.76	1,999.82	6.95	-12.75	-12.12	0.20
2,100.00	5.34	288.44	2,099.63	9.07	-18.22	-17.39	3.97
2,200.00	3.18	284.72	2,199.35	11.25	-25.32	-24.28	2.18
2,300.00	0.36	153.60	2,299.30	11.67	-27.86	-26.78	3.43
2,400.00	0.59	162.00	2,399.30	10.90	-27.57	-26.55	0.24
2,500.00	0.83	165.27	2,499.29	9.71	-27.22	-26.30	0.24
2,600.00	1.23	194.15	2,599.27	7.97	-27.30	-26.53	0.64
2,700.00	1.72	221.65	2,699.24	5.81	-28.56	-27.97	0.85
2,800.00	1.45	187.67	2,799.20	3.43	-29.73	-29.33	0.96
2,900.00	1.97	182.43	2,899.16	0.46	-29.97	-29.82	0.54
3,000.00	1.83	173.07	2,999.10	-2.84	-29.85	-29.98	0.34
3,100.00	2.23	176.74	3,099.04	-6.37	-29.54	-29.98	0.42
3,200.00	2.47	189.88	3,198.96	-10.43	-29.80	-30.58	0.59
3,300.00	2.15	191.30	3,298.88	-14.39	-30.54	-31.65	0.33
3,400.00	2.24	184.73	3,398.80	-18.18	-31.07	-32.49	0.27
3,500.00	2.56	178.03	3,498.72	-22.36	-31.15	-32.93	0.43
<b>Tie-On to Vaughn Gyro Survey</b>							
3,649.00	2.54	184.64	3,647.57	-28.98	-31.31	-33.64	0.20
<b>First Sperry MWD Survey</b>							
3,749.00	2.94	183.70	3,747.45	-33.75	-31.65	-34.39	0.40
3,849.00	3.39	183.94	3,847.30	-39.25	-32.02	-35.22	0.45
3,867.00	3.32	182.59	3,865.27	-40.31	-32.08	-35.37	0.59
3,930.00	2.78	182.75	3,928.18	-43.65	-32.24	-35.81	0.86
3,993.00	1.82	201.44	3,991.13	-46.11	-32.68	-36.45	1.91
4,056.00	0.71	223.25	4,054.11	-47.33	-33.31	-37.19	1.89
4,119.00	0.65	337.00	4,117.11	-47.28	-33.72	-37.59	1.81
4,183.00	1.02	10.94	4,181.10	-46.39	-33.75	-37.55	0.94
4,246.00	1.99	27.12	4,244.08	-44.87	-33.14	-36.81	1.67
4,310.00	2.77	28.45	4,308.03	-42.52	-31.90	-35.38	1.22

## Design Report for #14-7D-36 BTR - Vaughn Gyro and Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
4,373.00	4.06	30.02	4,370.91	-39.25	-30.06	-33.27	2.05
4,436.00	5.45	31.49	4,433.70	-34.76	-27.38	-30.22	2.21
4,500.00	7.04	36.06	4,497.31	-29.00	-23.48	-25.85	2.60
4,563.00	7.45	40.99	4,559.81	-22.80	-18.53	-20.39	1.18
4,626.00	8.36	39.26	4,622.21	-16.17	-12.96	-14.27	1.49
4,690.00	9.07	40.49	4,685.47	-8.73	-6.74	-7.45	1.15
4,753.00	9.64	44.03	4,747.64	-1.16	0.16	0.06	1.29
4,817.00	10.16	44.62	4,810.68	6.71	7.84	8.38	0.83
4,880.00	10.98	42.65	4,872.61	15.08	15.81	17.03	1.42
4,944.00	11.91	42.68	4,935.34	24.42	24.42	26.39	1.45
5,007.00	12.83	45.85	4,996.88	34.07	33.85	36.60	1.81
5,071.00	13.63	47.76	5,059.18	44.09	44.53	48.09	1.42
5,135.00	14.19	51.29	5,121.30	54.06	56.23	60.59	1.59
5,198.00	14.71	54.62	5,182.31	63.52	68.78	73.90	1.56
5,261.00	15.09	57.91	5,243.19	72.51	82.25	88.08	1.47
5,325.00	15.83	58.46	5,304.88	81.50	96.75	103.28	1.18
5,388.00	16.62	61.88	5,365.37	90.24	112.02	119.23	1.97
5,452.00	16.72	63.06	5,426.68	98.73	128.30	136.17	0.55
5,488.00	16.16	64.30	5,461.21	103.25	137.43	145.65	1.84
5,551.00	16.37	67.85	5,521.69	110.40	153.55	162.32	1.61
5,615.00	16.56	70.58	5,583.06	116.83	170.50	179.76	1.24
5,678.00	15.86	72.61	5,643.56	122.39	187.19	196.85	1.43
5,742.00	16.40	76.42	5,705.04	127.12	204.32	214.32	1.86
5,805.00	15.46	76.46	5,765.62	131.18	221.12	231.41	1.49
5,868.00	15.85	74.75	5,826.28	135.41	237.59	248.17	0.96
5,932.00	16.61	75.37	5,887.73	140.02	254.87	265.78	1.22
5,995.00	17.31	76.60	5,947.99	144.46	272.70	283.92	1.25
6,059.00	17.92	78.53	6,008.99	148.63	291.61	303.12	1.32
6,122.00	17.32	79.65	6,069.04	152.24	310.34	322.08	1.09
6,186.00	16.35	83.74	6,130.30	154.93	328.66	340.57	2.39
6,249.00	14.92	84.05	6,190.96	156.74	345.55	357.55	2.27
6,313.00	14.23	84.48	6,252.90	158.35	361.57	373.65	1.09
6,376.00	14.64	88.23	6,313.92	159.34	377.24	389.34	1.62
6,440.00	15.92	92.90	6,375.65	159.15	394.09	406.12	2.77
6,503.00	16.60	94.20	6,436.13	158.05	411.69	423.57	1.22
6,567.00	16.13	96.16	6,497.54	156.43	429.65	441.32	1.13
6,630.00	15.54	100.43	6,558.15	153.96	446.65	458.05	2.07
6,694.00	14.79	99.58	6,619.92	151.05	463.14	474.24	1.22
6,757.00	15.18	97.00	6,680.78	148.71	479.25	490.10	1.23
6,821.00	15.44	95.20	6,742.51	146.91	496.05	506.69	0.85
6,884.00	14.96	95.76	6,803.31	145.34	512.50	522.94	0.80
6,947.00	14.64	95.71	6,864.22	143.73	528.51	538.76	0.51
7,011.00	14.29	96.43	6,926.19	142.04	544.41	554.45	0.61
7,074.00	14.86	100.07	6,987.16	139.76	560.09	569.89	1.71
7,137.00	15.61	101.27	7,047.95	136.69	576.35	585.84	1.29
7,201.00	14.91	98.96	7,109.69	133.72	592.93	602.10	1.45
7,264.00	13.87	96.99	7,170.71	131.54	608.43	617.37	1.82
7,328.00	12.07	98.04	7,233.08	129.67	622.67	631.40	2.84
7,391.00	10.24	102.10	7,294.89	127.58	634.67	643.18	3.16
7,454.00	10.04	104.29	7,356.90	125.05	645.47	653.72	0.69
7,518.00	8.94	107.66	7,420.03	122.16	655.62	663.59	1.92

## Design Report for #14-7D-36 BTR - Vaughn Gyro and Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
7,582.00	9.12	108.20	7,483.23	119.07	665.17	672.85	0.31
7,645.00	10.28	102.44	7,545.33	116.30	675.41	682.81	2.40
7,708.00	9.92	98.30	7,607.36	114.30	686.26	693.46	1.29
7,772.00	9.60	97.59	7,670.43	112.80	697.01	704.04	0.53
7,835.00	9.04	99.59	7,732.60	111.28	707.10	713.97	1.03
7,899.00	8.17	102.36	7,795.88	109.47	716.50	723.18	1.51
7,962.00	6.95	105.56	7,858.33	107.49	724.54	731.03	2.05
8,026.00	6.27	106.40	7,921.90	105.47	731.63	737.92	1.07
8,090.00	5.61	112.02	7,985.56	103.31	737.88	743.97	1.37
8,153.00	4.94	117.00	8,048.29	100.92	743.15	749.02	1.29
8,217.00	4.69	123.80	8,112.07	98.21	747.78	753.40	0.97
8,280.00	4.57	132.24	8,174.86	95.09	751.78	757.12	1.10
8,344.00	4.40	140.20	8,238.67	91.49	755.24	760.26	1.01
8,407.00	3.92	147.12	8,301.50	87.83	757.95	762.66	1.10
8,471.00	2.70	157.52	8,365.39	84.60	759.72	764.15	2.12
8,534.00	1.49	147.68	8,428.35	82.54	760.72	764.97	2.00
8,598.00	0.34	2.98	8,492.35	82.02	761.18	765.38	2.78
8,661.00	0.77	322.84	8,555.34	82.55	760.93	765.18	0.88
8,725.00	0.50	299.34	8,619.34	83.03	760.43	764.72	0.58
8,788.00	0.48	279.41	8,682.34	83.20	759.93	764.24	0.27
8,852.00	0.43	272.71	8,746.33	83.26	759.42	763.74	0.11
8,915.00	0.47	233.32	8,809.33	83.12	758.98	763.29	0.49
8,979.00	0.47	211.65	8,873.33	82.73	758.63	762.91	0.28
9,042.00	0.74	215.71	8,936.33	82.18	758.26	762.49	0.43
9,106.00	0.97	209.57	9,000.32	81.38	757.75	761.92	0.39
9,169.00	1.05	207.58	9,063.31	80.40	757.22	761.30	0.14
9,232.00	1.10	217.60	9,126.30	79.41	756.58	760.59	0.31
9,296.00	1.33	255.68	9,190.29	78.74	755.49	759.44	1.28
9,359.00	1.26	284.85	9,253.27	78.74	754.11	758.07	1.04
9,423.00	0.95	307.17	9,317.26	79.24	753.01	757.01	0.82
9,486.00	0.80	307.17	9,380.25	79.82	752.24	756.29	0.24
9,550.00	0.58	288.11	9,444.25	80.19	751.58	755.66	0.49
9,613.00	0.47	266.01	9,507.24	80.27	751.02	755.11	0.36
9,677.00	0.32	261.24	9,571.24	80.23	750.58	754.67	0.24
9,741.00	0.34	193.92	9,635.24	80.01	750.36	754.43	0.57
9,804.00	0.78	172.98	9,698.24	79.41	750.36	754.39	0.76
9,868.00	0.91	166.96	9,762.23	78.48	750.53	754.48	0.25
9,931.00	0.97	155.32	9,825.22	77.51	750.87	754.73	0.32
9,994.00	0.90	155.83	9,888.21	76.57	751.29	755.07	0.11
10,058.00	0.86	165.09	9,952.21	75.65	751.62	755.32	0.23
10,121.00	0.94	176.73	10,015.20	74.68	751.77	755.39	0.32
10,185.00	1.21	172.90	10,079.19	73.48	751.89	755.41	0.44
10,248.00	1.16	178.56	10,142.17	72.18	751.98	755.39	0.20
10,311.00	1.54	175.56	10,205.16	70.70	752.07	755.35	0.61
10,375.00	2.01	181.13	10,269.13	68.72	752.11	755.23	0.78
10,438.00	2.44	180.98	10,332.08	66.28	752.07	754.98	0.68
10,502.00	3.02	184.97	10,396.01	63.24	751.90	754.55	0.95
10,565.00	3.42	185.76	10,458.91	59.71	751.56	753.92	0.64
10,629.00	3.59	186.02	10,522.79	55.82	751.16	753.19	0.27
10,692.00	4.02	183.31	10,585.65	51.66	750.83	752.51	0.74
10,756.00	4.46	182.19	10,649.47	46.93	750.60	751.89	0.70

## Design Report for #14-7D-36 BTR - Vaughn Gyro and Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
10,819.00	4.76	182.52	10,712.27	41.87	750.39	751.25	0.48
10,883.00	4.99	180.97	10,776.04	36.43	750.23	750.63	0.41
10,946.00	5.24	179.82	10,838.79	30.82	750.19	750.12	0.43
11,010.00	5.56	182.11	10,902.50	24.80	750.09	749.50	0.60
11,073.00	5.60	182.80	10,965.20	18.68	749.83	748.73	0.12
11,144.00	5.80	184.48	11,035.85	11.64	749.38	747.68	0.37
<b>Final Sperry MWD Survey</b>							
11,200.00	5.80	184.48	11,091.57	6.00	748.93	746.77	0.00
<b>Survey Projection to TD</b>							

### Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
100.00	100.00	-0.07	-0.11	Surveys from 100.00ft to 3500.00ft are Vaughn Gyro Surveys
3,500.00	3,498.72	-22.36	-31.15	Tie-On to Vaughn Gyro Survey
3,649.00	3,647.57	-28.98	-31.31	First Sperry MWD Survey
11,144.00	11,035.85	11.64	749.38	Final Sperry MWD Survey
11,200.00	11,091.57	6.00	748.93	Survey Projection to TD

### Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
Target	14-7D-36 BTR_BHL Tgt	85.16	Slot	0.00	0.00	0.00

### Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
100.00	3,500.00	Vaughn Gyro Surveys	NS-GYRO-MS
3,649.00	11,200.00	Sperry MWD Surveys	MWD



## Design Report for #14-7D-36 BTR - Vaughn Gyro and Sperry MWD Survey

### Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
14-7D-36	0.00	0.00	0.00	0.00	0.00	691,666.49	2,248,063.89	40° 13' 44.152 N	110° 36' 41.540 W
- actual wellpath hits target center									
- Polygon									
Point 1				-116.00	-84.00	691,581.34	2,247,948.74		
Point 2				1,742.39	-84.00	691,599.80	2,249,806.90		
14-7D-36	0.00	0.00	0.00	0.00	0.00	691,666.49	2,248,063.89	40° 13' 44.152 N	110° 36' 41.540 W
- actual wellpath hits target center									
- Polygon									
Point 1				-776.00	-744.00	690,914.87	2,247,295.38		
Point 2				1,742.39	-744.00	690,939.89	2,249,813.45		
14-7D-36 BTR_BHL	0.00	0.00	11,126.00	59.67	704.23	691,733.14	2,248,767.44	40° 13' 44.741 N	110° 36' 32.461 W
- actual wellpath misses target center by 77.88ft at 11200.00ft MD (11091.57 TVD, 6.00 N, 748.93 E)									
- Point									
14-7D-36	0.00	0.00	0.00	0.00	0.00	691,666.49	2,248,063.89	40° 13' 44.152 N	110° 36' 41.540 W
- actual wellpath hits target center									
- Polygon									
Point 1				-116.00	1,900.96	693,566.05	2,247,929.03		
Point 2				-116.00	-84.00	691,581.34	2,247,948.74		
14-7D-36	0.00	0.00	7,806.00	59.66	704.24	691,733.13	2,248,767.45	40° 13' 44.741 N	110° 36' 32.461 W
- actual wellpath misses target center by 51.35ft at 7909.04ft MD (7805.81 TVD, 109.17 N, 717.87 E)									
- Rectangle (sides VW200.00 H200.00 D3,320.00)									
14-7D-36	0.00	0.00	0.00	0.00	0.00	691,666.49	2,248,063.89	40° 13' 44.152 N	110° 36' 41.540 W
- actual wellpath hits target center									
- Polygon									
Point 1				-776.00	-744.00	690,914.87	2,247,295.38		
Point 2				-776.00	1,900.96	693,559.50	2,247,269.11		
14-7D-36 BTR_SHL	0.00	0.00	0.00	0.00	0.00	691,666.48	2,248,063.89	40° 13' 44.152 N	110° 36' 41.540 W
- actual wellpath hits target center									
- Point									

**North Reference Sheet for Sec. 7-T3S-R6W - #14-7D-36 BTR - Plan A Rev 2**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB 16' @ 6276.00ft (Patterson 506). Northing and Easting are relative to #14-7D-36 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 111° 30' 0.000 W°, Longitude Origin: 0° 0' 0.000 E°, Latitude Origin: 40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99992241

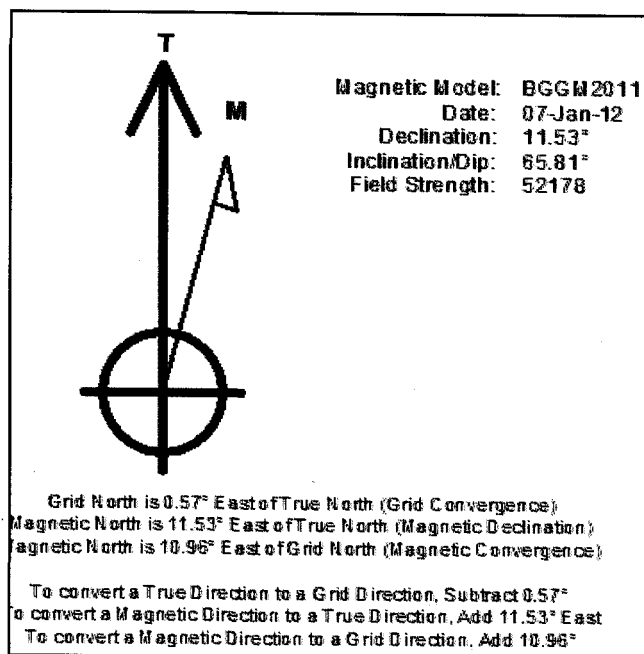
Grid Coordinates of Well: 691,666.48 ft N, 2,248,063.89 ft E

Geographical Coordinates of Well: 40° 13' 44.15" N, 110° 36' 41.54" W

Grid Convergence at Surface is: 0.57°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,200.00ft  
the Bottom Hole Displacement is 748.96ft in the Direction of 89.54° (True).

Magnetic Convergence at surface is: -10.96° ( 7 January 2012, , BGGM2011)

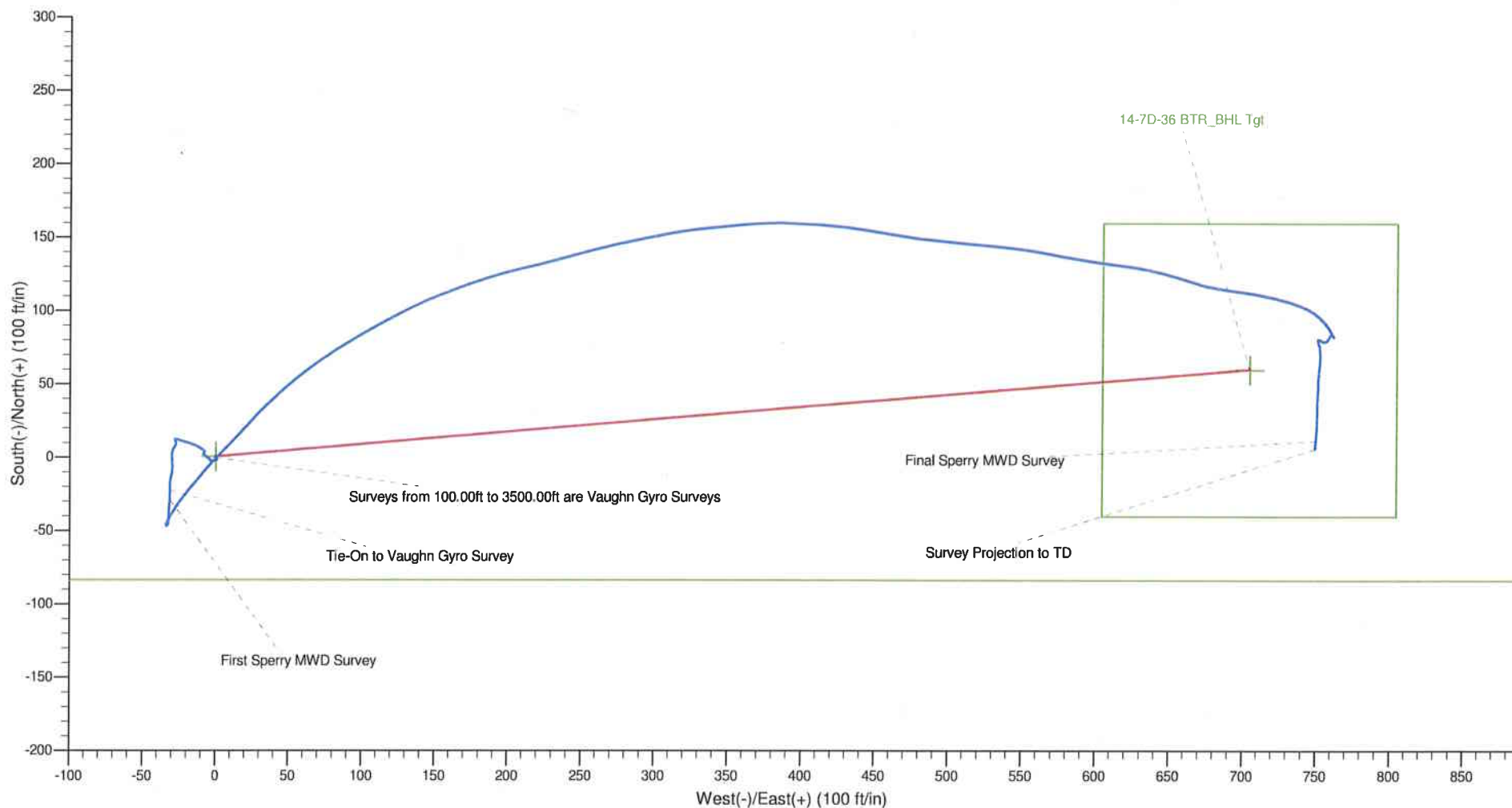


Project: Duchesne County, UT (NAD 1927)  
Site: Sec. 7-T3S-R6W  
Well: #14-7D-36 BTR

# Bill Barrett Corp

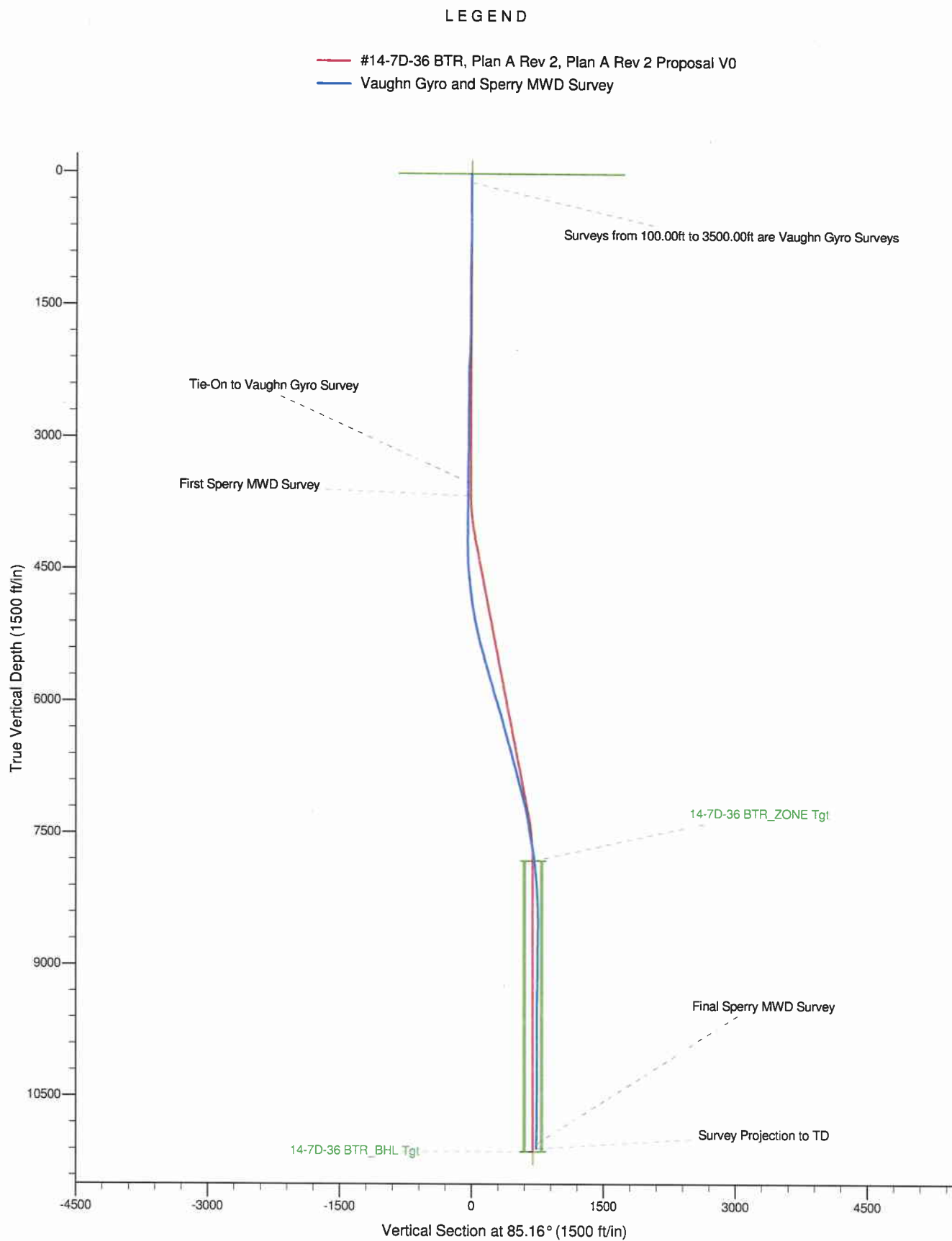
**HALLIBURTON**

Sperry Drilling



## LEGEND

- #14-7D-36 BTR, Plan A Rev 2, Plan A Rev 2 Proposal V0
- Vaughn Gyro and Sperry MWD Survey



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 2OG0005608			
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 14-7D-36 BTR			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0744 FSL 0776 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 07 Township: 03.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506130000			
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM			
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>  <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 7/11/2012  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION          OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> BBC requests to recomplete the subject well location per the attached procedure.					
<b>Accepted by the          Utah Division of          Oil, Gas and Mining</b>  <b>Date:</b> June 26, 2012 <b>By:</b>					
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher		<b>PHONE NUMBER</b> 303 312-8172			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Senior Permit Analyst			
<b>DATE</b> 6/20/2012					



**14-7D-36 BTR**  
**RECOMPLETE PROCEDURES**  
Section 7-T3S-R6W  
Duchesne County, Utah  
API # 43-013-50613

**June 20, 2012**

**AFE #**

**OBJECTIVE**

Pull existing rods and tubing, set CBP above existing perforations, and prepare wellbore for a Wasatch/Lower Green River recomplete. Perforate and frac per the procedure below. Drill out all CBP's, clean out well to TD, run tubing and return well to production.

**MATERIAL NEEDS:**

Fresh Water: 15,000 BBL's  
Proppant: 610,000 pounds 20/40 SLC and 81,000 pounds 100 Mesh, to be supplied by Service Company

**CURRENT WELL STATUS**

Currently the well is not producing.

**COMPLETION PROCEDURE**

1. **Safety is the highest priority.** Hold wellsite safety meetings each morning and prior to each significant operation. Review critical parameters and objectives as well as emergency action plans.
2. Hold and document pre-activity meeting, determine location of necessary equipment and rig up of same, be sure all necessary contractors are present and agree as to the layout of location.
3. Spot necessary tanks and flowback equipment to perform the work outlined below and accommodate the materials listed above.
4. Pressure test flowback iron.
5. MIRU workover rig to pull rods and tubing.
6. Flush well with 300 BBL's heated fresh water using workover rig pump.



7. RDMO workover rig and associated equipment.
8. MIRU WL unit and lubricator.
9. RIH with gage ring to 9,650'.
10. RIH with CBP set at 9,618 MD.
11. ND production tree and NU frac tree.
12. Pressure test casing and CBP to 6,500 psi, hold for 15 minutes, monitor and record bleed off.
13. Perforate Stage 7 of Wasatch as follows:

<b>STAGE 7</b>				
<b>GUN SYSTEM</b>	3 1/8			
<b>CHARGE</b>	3104 PJO			
	9331	9332	3	120
	9373	9374	3	120
	9383	9384	3	120
	9395	9396	3	120
	9413	9414	3	120
	9445	9446	3	120
	9459	9460	3	120
	9479	9480	3	120
	9499	9500	3	120
	9529	9530	3	120
	9544	9545	3	120
	9577	9578	3	120
	9597	9598	3	120
<b>Total</b>			39	

14. MIRU & spot Halliburton Frac equipment.
15. Pressures test all lines to 10,000 psi.
16. Fracture stimulate interval # 7 per designs.
17. PU & RIH with CBP and perforating guns.
18. Set CBP @ 9,320'
19. Perforate Stage 8 of Wasatch as follows:





<b>STAGE 8</b>				
<b>GUN SYSTEM</b>	3 1/8			
<b>CHARGE</b>	3104 PJO			
	9025	9026	3	120
	9045	9046	3	120
	9059	9060	3	120
	9085	9086	3	120
	9097	9098	3	120
	9107	9108	3	120
	9129	9130	3	120
	9146	9147	3	120
	9155	9156	3	120
	9167	9168	3	120
	9209	9210	3	120
	9225	9226	3	120
	9255	9256	3	120
	9267	9268	3	120
	9299	9300	3	120
<b>Total</b>			45	

20. Fracture stimulate interval #8 per design.

21. PU & RIH with CBP and perforating guns.

22. Set CBP @ 9,320'.

23. Perforate Stage 9 of Lower Green River as follows:



<b>STAGE 9</b>				
<b>GUN SYSTEM</b>	3 1/8			
<b>CHARGE</b>	3104 PJO			
	8715	8716	3	120
	8735	8736	3	120
	8753	8754	3	120
	8763	8764	3	120
	8779	8780	3	120
	8803	8804	3	120
	8825	8826	3	120
	8861	8862	3	120
	8895	8896	3	120
	8907	8908	3	120
	8943	8944	3	120
	8953	8954	3	120
	8969	8970	3	120
	8989	8990	3	120
<b>Total</b>			42	

24. Fracture stimulate Lower Green River interval # 9 per design.

25. PU & RIH with CBP and perforating guns.

26. Set CBP @ 8,710'.

27. Perforate Stage 10 of Lower Green River as follows:



<b>STAGE 10</b>				
<b>GUN SYSTEM</b>	3 1/8			
<b>CHARGE</b>	3104 PJO			
	8314	8315	3	120
	8339	8340	3	120
	8383	8384	3	120
	8411	8412	3	120
	8431	8432	3	120
	8445	8446	3	120
	8468	8469	3	120
	8483	8484	3	120
	8499	8500	3	120
	8525	8526	3	120
	8559	8560	3	120
	8599	8600	3	120
	8629	8630	3	120
	8663	8664	3	120
	8689	8690	3	120
<b>Total</b>			45	

28. Fracture stimulate Lower Green River interval # 10 per design.

29. PU & RIH with CBP and perforating guns.

30. Set CBP @ 7,500'.

31. Perforate Stage 10R of Lower Green River as follows:

32. RD Halliburton frac equipment, clear location of all unnecessary personnel and equipment.

33. ND frac tree and NU production tree and BOP's.

34. MIRU workover rig unit

35. Drill out CBP's, clean well out to TD, and land tubing.

36. Return well to production.

#### CASING DATA

STRING	SIZE	WEIGHT	GRADE	DEPTH
Surface	10-3/4"	45.5#	J-55	3,595'



Production	5-1/2"	17#	P-110	11,200'

**PRESSURE AND DIMENSIONAL DATA**

SIZE	WEIGHT	GRADE	BURST	COLLAPSE	DRIFT
10-3/4"	45.5#	J-55	3,130 psi	2,090 psi	9.894"
5 1/2"	17.0#	P-110	10,640 psi	7,460 psi	4.653"

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-6440
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 14-7D-36 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0744 FSL 0776 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 07 Township: 03.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506130000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/29/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="Earned Lease"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This sundry is being submitted as notification that the lease has been earned and the new lease number is 14-20-H62-6440.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> July 10, 2012		
<b>NAME (PLEASE PRINT)</b> Tracey Fallang	<b>PHONE NUMBER</b> 303 312-8134	<b>TITLE</b> Regulatory Manager
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/10/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
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<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 14-7D-36 BTR			
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<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>  <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 7/18/2013  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input type="text" value="Cement Squeeze"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Cement Squeeze"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Cement Squeeze"/>			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> BBC proposes a cement squeeze be done for the subject well due to an isolated leak caused by a tubing punch to pull tubing to recover a stuck jet pump.					
<b>Accepted by the          Utah Division of          Oil, Gas and Mining</b>  <b>Date:</b> July 17, 2013 <b>By:</b> <u>Derek Quist</u>					
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher		<b>PHONE NUMBER</b> 303 312-8172			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Senior Permit Analyst			
<b>DATE</b> 7/17/2013					

ISOLATED LEAK BETWEEN 5534' AND 5565' caused by tubing punch to pull tubing to recover a stuck jet pump.

INJECT 1 BPM AT 2250 PSI AND 1.5 BPM AT 3100 PSI.

15.8#, 1.15 YEILD CMT

#### PROCEDURE

1. MIRU. NDWH. NUBOP
2. POOH w/ 2-7/8" tubing.
3. RU wireline. RIH w/ 5-1/2" CBP and set at 5,580'
4. POOH and RD wireline.
5. RU pump and establish injection rate.
6. PU 2-7/8" tubing, RIH to CFP @ 5,580'.
7. Spot a 25 sx 15.8#, 1.15 YEILD Class G cement.
8. PUH to 5,000' w/ tbg.
9. RU pump and pressure up on cement plug to 3000 psi. WOC.
10. POOH w/ tbg. PU 4-3/4" bit. DO cement to CFP.
11. RU pump and test squeeze to 1,500 psi.
12. Clean out well bore. Return to production.

#### Alternative with a cement retainer

1. MIRU. NDWH. NUBOP
2. POOH w/ 2-7/8" tubing.
3. RU wireline. RIH w/ 5-1/2" CBP and set at 5,580'
4. RIH w/ cement retainer set at 5,500'.
5. POOH and RD wireline.
6. PU 2-7/8" tubing, RIH to cement retainer @ 5,500'.
7. Sting in and test retainer. RU pump and establish injection rate.
8. Pump 25 sx 15.8#, 1.15 YEILD Class G cement.
9. Sting out of retainer. PUH reverse circulate tbg. WOC
10. POOH w/ tbg. PU 4-3/4" bit. DO cement to CFP.
11. RU pump and test squeeze to 1,500 psi.
12. Clean out well bore. Return to production.



Form 3160-4  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**RECOMPLETION**FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion <input type="checkbox"/> New Well <input checked="" type="checkbox"/> <b>Work Over</b> <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____				5. Lease Serial No. 1420H626440	
2. Name of Operator BILL BARRETT CORPORATION    Contact: VENESSA LANGMACHER E-Mail: vlangmacher@billbarrettcorp.com				6. If Indian, Allottee or Tribe Name	
3. Address    1099 18TH STREET SUITE 2300 DENVER, CO 80202    3a. Phone No. (include area code) Ph: 303-312-8172				7. Unit or CA Agreement Name and No.	
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface    SWSW 744FSL 776FWL  At top prod interval reported below    SESW 824FSL 1527FWL  At total depth    SESW 750FSL 1525FWL				8. Lease Name and Well No. 14-7D-36 BTR  9. API Well No. 43-013-50613	
14. Date Spudded 11/28/2011		15. Date T.D. Reached 02/12/2012		10. Field and Pool, or Exploratory ALTAMONT  11. Sec., T., R., M., or Block and Survey or Area    Sec 7 T3S R6W Mer UBM  12. County or Parish DUCHESNE    13. State UT	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 09/10/2012		17. Elevations (DF, KB, RT, GL)* 6261 GL			
18. Total Depth:    MD    11200 TVD    11092		19. Plug Back T.D.:    MD    11110 TVD    10965		20. Depth Bridge Plug Set:    MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL, MUD, TRIPPLE COMBO				22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)	

## 23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	84.0	0	96	96	0	0	0	
14.750	10.750 J-55	45.5	0	3595	3595	1502	694	0	
8.750	5.500 P-110	17.0	0	11200	11200	2060	741	3500	15000

## 24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	9521							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	9045	9598	9045 TO 9598	0.380	51	OPEN
B) GREEN RIVER	8314	9025	8314 TO 9025	0.380	87	OPEN
C)						
D)						

## 26. Perforation Record

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9045 TO 9598	WASATCH: SEE TREATMENT STAGES 7-8
8314 TO 9025	GREEN RIVER: SEE TREATMENT STAGES 9-10

## 28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/09/2012	09/14/2012	24		815.0	874.0	339.0	52.0		FLOWS FROM WELL
Choke Size 64/64	Tbg. Press. Flwg. 650 SI	Csg. Press. 1900.0	24 Hr. Rate 	Oil BBL 815	Gas MCF 874	Water BBL 339	Gas:Oil Ratio 1072	Well Status POW	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate 	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI									

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #284865 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

RECEIVED: Dec. 11, 2014

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)  
CAPTURED

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER MAHOGANY DOUGLAS CREEK BLACK SHALE CASTLE PEAK UTELAND BUTTE WASATCH	4174 5172 7595 8072 8308 8711 9171

## 32. Additional remarks (include plugging procedure):

This completion report is being submitted to report the recompletion intervals.

## 33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #284865 Verified by the BLM Well Information System.  
For BILL BARRETT CORPORATION, sent to the Vernal**

Name(*please print*) VENESSA LANGMACHERTitle SR PERMIT ANALYST

Signature \_\_\_\_\_ (Electronic Submission)

Date 12/11/2014

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**RECEIVED:** Dec. 11, 2014

## #14-7D-36 BTR Re-completion Report

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)		
AMOUNT AND TYPE OF MATERIAL		
<u>Stage</u>	<u>Bbls Slurry</u>	<u>Gal Acid</u>
7	633	15119
8	603	15070
9	589	15066
10	587	15219

\*Depth intervals for frac information same as perforation record intervals.

Effective Date: 11/1/2016

<b>FORMER OPERATOR:</b>	<b>NEW OPERATOR:</b>
Bill Barrett Corporation 1099 18th Street, Suite 2300 Denver, CO 80202	Rig II, LLC 1582 West 2600 South Woods Cross, UT 84087
CA Number(s):	Unit(s):

**WELL INFORMATION:**

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

**OPERATOR CHANGES DOCUMENTATION:**

1. Sundry or legal documentation was received from the **FORMER** operator on: 10/21/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 10/21/2016
3. New operator Division of Corporations Business Number: 8256968-0160

**REVIEW:**

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
2. Receipt of Acceptance of Drilling Procedures for APD on: 10/21/2016
3. Reports current for Production/Disposition & Sundries: 11/2/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 11/3/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 11/3/2016
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): 11/3/2016

**NEW OPERATOR BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UTB000712
2. Indian well(s) covered by Bond Number: LPM 922467
3. State/fee well(s) covered by Bond Number(s): 9219529

**DATA ENTRY:**

1. Well(s) update in the **OGIS** on: 11/7/2016
2. Entity Number(s) updated in **OGIS** on: 11/7/2016
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 11/7/2016
6. Surface Facilities update in **RBDMS** on: N/A

**COMMENTS:**

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
SWD 9-36 BTR	9	030S	060W	4301350646	18077	Indian	Fee	WD	A
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	A
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	A
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040S	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
8H-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	OW	APD
LC TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	OW	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	OW	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	OW	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	OW	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
LC TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	OW	APD
LC TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	OW	APD
LC TRIBAL 8H-30-45	30	040S	050W	4301351277		Indian	Indian	OW	APD
LC TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
LC TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	OW	APD
LC TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
LC TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
LC TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
LC TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
LC TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
LC TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
LC TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	OW	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420		Indian	Fee	OW	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
LC TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

14-12D-45 BTR	12	040S	050W	4301351444		Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445		Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446		Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450		Indian	State	OW	APD
LC TRIBAL 16-34D-46	34	040S	060W	4301351451		Indian	State	OW	APD
16-12D-45 BTR	12	040S	050W	4301351452		Indian	Indian	OW	APD
8-12D-45 BTR	12	040S	050W	4301351453		Indian	Indian	OW	APD
LC TRIBAL 1-35D-46	35	040S	060W	4301351454		Indian	Fee	OW	APD
16-25D-37 BTR	25	030S	070W	4301351455		Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	28	040S	060W	4301351462		Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	030S	070W	4301351494		Indian	Fee	OW	APD
7-13D-45 BTR	13	040S	050W	4301351497		Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	040S	060W	4301351515		Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040S	060W	4301351543		Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598		Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030S	070W	4301351610		Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613		Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616		Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617		Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619		Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620		Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624		Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625		Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627		Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628		Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629		Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639		Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640		Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641		Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	080W	4301351643		Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644		Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	080W	4301351645		Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646		Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654		Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656		Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657		Indian	Fee	OW	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658		Indian	Fee	OW	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659		Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	040S	050W	4301351661		Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040S	060W	4301351663		Indian	Fee	OW	APD
3-29D-36 BTR	29	030S	060W	4301351665		Indian	Fee	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
LC Tribal 5-24D-46	24	040S	060W	4301351668	Indian	Indian	OW	APD
LC TRIBAL 6-12D-58	12	050S	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
LC TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	030S	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	030S	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	030S	050W	4301351806	Indian	Fee	OW	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	030S	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	030S	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
LC Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
LC Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	030S	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	030S	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	030S	060W	4301351872	Indian	Fee	OW	APD
8-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
LC Tribal 5-36D-46	36	040S	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	040S	050W	4301352001	Indian	Indian	OW	APD
LC Tribal 8-22D-45	22	040S	050W	4301352002	Indian	Indian	OW	APD
LC Tribal 8-25D-45	25	040S	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	030S	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	OW	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	040S	070W	4301352055	Indian	Indian	OW	APD
LC Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	OW	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	040S	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	040S	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	030S	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	030S	070W	4301352116	Indian	Fee	OW	APD



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LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
7-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
LC Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
LC Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
LC Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
LC Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
LC Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
15-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
13-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
BTR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
4-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	OW	APD
1-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
LC TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	OW	APD
LC Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
LC Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
LC Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
LC Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
LC Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
LC Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
LC Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
LC Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
LC Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
LC Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
LC Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
LC Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
LC Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
LC Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
LC Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
LC Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
LC Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
LC Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
LC Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
LC Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	OW	APD
LC Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
LC Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
LC Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
LC Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
LC Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
LC Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD

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LC Tribal 7-24D-46	24	040S	060W	4301353134		Indian	Indian	OW	APD
LC Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
LC Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
LC FEE 14-26D-47	26	040S	070W	4301353294		Fee	Indian	OW	APD
LC Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
LC Fee 1H-33-47	32	040S	070W	4301353309		Fee	Indian	OW	APD
LC FEE 14-2D-58	2	050S	080W	4301353312		Fee	Indian	OW	APD
LC FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
LC Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
16-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
LC Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
LC Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
LC Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
LC Fee 5-35D-47	35	040S	070W	4301353334		Fee	Indian	OW	APD
13-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
14-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
6-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
5-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
5-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
9-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
5-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
1-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
7-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
LC TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
7-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
LC TRIBAL 12H-28-46	28	040S	060W	4301333631	18132	Indian	Indian	GW	P
LC TRIBAL 13H-21-46	21	040S	060W	4301333632	18107	Indian	Indian	GW	P
12-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
5-5-46 BTR	5	040S	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	030S	060W	4301333642	16675	Indian	Fee	GW	P
14-29-36 BTR	29	030S	060W	4301333643	16725	Indian	Fee	OW	P
14-30-36 BTR	30	030S	060W	4301333644	16701	Indian	Fee	GW	P
7-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	P
LC TRIBAL 5-21D-46	21	040S	060W	4301333658	18887	Indian	Indian	OW	P
5-20-46 DLB	20	040S	060W	4301333659	18750	Indian	Indian	GW	P
LC TRIBAL 13H-20-46	20	040S	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	040S	060W	4301333806	16890	Indian	Indian	GW	P
7-8-45 BTR	8	040S	050W	4301333820	16974	Indian	Indian	OW	P

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1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	P
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	OW	P
5-29-36 BTR	29	030S	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	P
5-25-36 BTR	25	030S	060W	4301334021	17126	Fee	Fee	OW	P
5-4-45 BTR	4	040S	050W	4301334089	17507	Indian	Indian	OW	P
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	OW	P
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	P
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	P
1-9-45 BTR	9	040S	050W	4301334101	17910	Indian	Indian	OW	P
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	OW	P
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	P
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	P
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	OW	P
6-12-46 BTR	12	040S	060W	4301334114	17964	Indian	Indian	OW	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	P
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	OW	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	P
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	OW	P
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	OW	P
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	OW	P
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	OW	P
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	P
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	P
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	P
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	P
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	P
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	P
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	P
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	P
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	P
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	P
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	P
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	P
7-26-37 BTR	26	030S	070W	4301350641	18131	Indian	Fee	OW	P
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	P
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	OW	P
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	OW	P

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4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	P
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	P
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	P
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	P
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	P
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	P
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	OW	P
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	OW	P
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	P
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	P
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	P
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	P
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	P
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	P
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	OW	P
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	P
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	OW	P
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	P
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	OW	P
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	OW	P
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	P
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	P
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	P
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	P
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	P
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	P
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	P
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	P
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	P
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	P
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	P
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	040S	050W	4301351278	18627	Indian	Indian	OW	P
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	P
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	P

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LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	P
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	OW	P
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	OW	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	OW	P
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	OW	P
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	OW	P
11-8D-46 BTR	8	040S	060W	4301351336	19314	Indian	Indian	OW	P
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	OW	P
7-5-35 BTR	5	030S	050W	4301351599	19078	Indian	Fee	OW	P
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	OW	P
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	P
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	P
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	OW	P
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	P
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	OW	P
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	P
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	OW	P
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	P
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	OW	P
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	OW	P
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	OW	P
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	OW	P
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	OW	P
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	OW	P
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	030S	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030S	060W	4301334133	17834	Indian	Fee	OW	S
1-30-36 BTR	30	030S	060W	4301334134	17905	Indian	Fee	OW	S
16-30-36 BTR	30	030S	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	030S	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	030S	060W	4301334138	17666	Indian	Fee	OW	S

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	030S	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040S	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	OW	S
16-9-36 BTR	9	030S	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D-36	27	030S	060W	4301350917	18482	Indian	State	OW	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	OW	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD form changing the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

**New Operator Contact information:**

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
Telephone: (801) 683-4245  
Fax: (801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

Bill Barrett Corporation

Brady Riley  
Permit Analyst

**RECEIVED**  
OCT 21 2016  
DIV. OF OIL, GAS & MINING



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:  
(see attached well list)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

N/A

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
(see attached well list)

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

2. NAME OF OPERATOR:

RIG II, LLC

N4055

3. ADDRESS OF OPERATOR:

1582 West 2600 South

CITY Wood Cross

STATE UT

ZIP 84087

PHONE NUMBER:

(801) 683-4245

4. LOCATION OF WELL

FOOTAGES AT SURFACE: (see attached well list)

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

11/1/2016

☐ SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☒ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☐ OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO RIG II, LLC BY BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW.

RIG II, LLC

1582 West 2600 South

Woods Cross, Utah 84087-0298

801-683-4245

(STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670)

BILL BARRETT CORPORATION N4165

Duane Zavala

NAME (PLEASE PRINT)

Duane Zavala

SIGNATURE

Senior Vice President -

EH&S, Government and Regulatory Affairs

RIG II, LLC

Jesse McSwain

NAME (PLEASE PRINT)

Jesse McSwain

SIGNATURE

Manager

NAME (PLEASE PRINT) Jesse McSwain

TITLE Manager

SIGNATURE

Jesse McSwain

DATE

10/20/16

(This space for State use only)

APPROVED

NOV 07 2016

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**Request to Transfer Application or Permit to Drill**

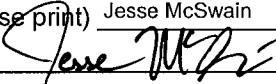
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<b>Well name:</b>	(See attached list)
<b>API number:</b>	
<b>Location:</b>	Qtr-Qtr:                      Section:                      Township:                      Range:
<b>Company that filed original application:</b>	Bill Barrett Corporation
<b>Date original permit was issued:</b>	
<b>Company that permit was issued to:</b>	Bill Barrett Corporation

Check one	Desired Action:
	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	<b>Transfer approved Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <small>9219529-UDOGM / UTB000712-BLM / LPM9224670-BIA</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Jesse McSwain Title Manager  
Signature  Date 10/20/16  
Representing (company name) RIG II, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

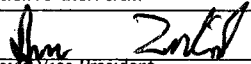
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

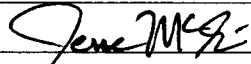
Well Name and Number <b>6-32-36 BTR SWD</b>	API Number <b>4301350921</b>
Location of Well  Footage : <b>1628 FNL 1553 FWL</b> County : <b>DUCHENSE</b>  QQ, Section, Township, Range: <b>SENW    32    3S    6W</b> State : <b>UTAH</b>	Field or Unit Name <b>CEDAR RIM</b>  Lease Designation and Number <b>2OG0005608</b>

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

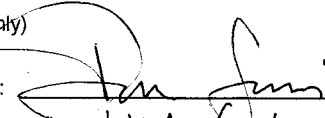
**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadii</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President -</u>
Phone: <u>(303) 293-9100</u>	Title: <u>EH&amp;S, Government and Regulatory Affairs</u>
Comments:	Date: <u>10/20/16</u>

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by:   
Title: UIC Geologist

Approval Date: 11/3/16

Comments:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

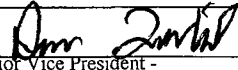
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

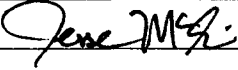
CURRENT OPERATOR

Company: BILL BARRETT CORPORATION  
Address: 1099 18th Street Ste 2300  
city DENVER state CO zip 80202  
Phone: (303) 293-9100  
Comments:


Name: Duane Zavadii  
Signature:   
Senior Vice President -  
Title: EH&S, Government and Regulatory Affairs  
Date: 10/20/16

NEW OPERATOR

Company: RIG II, LLC  
Address: 1582 West 2600 South  
city Wood Cross state UT zip 84087  
Phone: (801) 683-4245  
Comments:

Name: Jesse McSwain  
Signature:   
Title: Manager  
Date: 10/20/16

(This space for State use only)

Transfer approved by:   
Title: VIC

Approval Date: 11/3/16

Comments:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

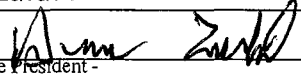
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

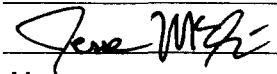
Well Name and Number SWD 9-36 BTR	API Number 4301350646
Location of Well Footage : 0539 FSL 0704 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 9 3S 6W State : UTAH	Field or Unit Name CEDAR RIM Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OPERATOR

Company: BILL BARRETT CORPORATION	Name: Duane Zavadii
Address: 1099 18th Street Ste 2300	Signature: 
city DENVER state CO zip 80202	Title: Senior Vice President - EH&S, Government and Regulatory Affairs
Phone: (303) 293-9100	Date: 10/20/16
Comments:	

NEW OPERATOR

Company: RIG II, LLC	Name: Jesse McSwain
Address: 1582 West 2600 South	Signature: 
city Wood Cross state UT zip 84087	Title: Manager
Phone: (801) 683-4245	Date: 10/20/16
Comments:	

(This space for State use only)

Transfer approved by: \_\_\_\_\_ Approval Date: \_\_\_\_\_

Title: \_\_\_\_\_

Comments:

*This well was approved by USEPA.  
EPA approval will be required.*